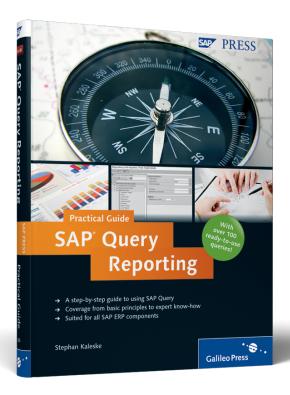
SAP® Query Reporting—Practical Guide





Contents at a Glance

PAR	T I Introduction to SAP Query	23
1	Introduction to SAP ERP Reporting	25
2	Overview of SAP Tables and Table Links	53
3	QuickViewer	77
4	Overview of SAP Query	93
5	Query Utilities	115
PAR	T II SAP Query Functions	137
6	InfoSet in Detail	139
7	SAP Query in Detail	165
8	Selection and Layout Variants	191
9	Traffic Light Icons, Drilldown, Graphics, and ABC Analyses	205
PAR	T III Designing User-Friendly Reports	223
10	Summarized Data Output with Statistics and Ranked Lists \dots	225
11	ABAP Fundamentals in the InfoSet	249
12	Integration with Microsoft Excel	279
PAR	T IV Query Management	291
13	Transport System	293
14	Data Retrieval and Function Modules	303
15	Authorizations and Transaction Creation	331
PAR	T V Real-Life Examples	345
16	Real-Life Examples	347
Арр	endices	
Α	Important SAP Tables	377
В	The Author	391

Contents

		tion	13 17
PA	RT I	Introduction to SAP Query	
1	Intr	oduction to SAP ERP Reporting	25
	1.1	ABAP Report Generators	26
	1.2 1.3	Query Reporting Tools Comparing Analysis Tools: SAP Query and SAP	28
	1.5	NetWeaver BW	33
	1.4	Cumulated Analyses with Multilevel Hierarchies	34
		1.4.1 Summarization Hierarchies	35
		1.4.2 Report Painter	36
		1.4.3 Drilldown Reporting	40
	1.5	Using Standard Reports	44
		1.5.1 SAP Area Menus	44
		1.5.2 Finding a Report in the SAP Menu	47
		1.5.3 Searching the Menu for Standard Reports	49 50
	1.6	1.5.4 Important Standard Transactions	50 52
	1.0	Juninary	22
2	Ove	rview of SAP Tables and Table Links	53
	2.1	Data Browser	53
	2.2	Table Determination Options	58
		2.2.1 F1 Help	58
		2.2.2 Table Trace	64
		2.2.3 Archiving Object	66
		2.2.4 Where-Used List	68
	2.3	Table Links	72
		2.3.1 Customer Master	72
	2.4	2.3.2 Sales Document	73
	2.4	Summary	76

3	Quic	kViewer	77
	3.1	QuickViewer Overview	77
	3.2	Sample Data for Table TSTCT	78
	3.3	QuickViewer Initial Screen	80
	3.4	Steps for Creating a QuickViewer Report	82
		3.4.1 Defining a QuickView Name and Description	82
		3.4.2 Selecting a Data Source	84
		3.4.3 Selecting Selection Fields and Layout Fields	85
	3.5	Layout Mode	89
	3.6	Summary	91
4	Ove	rview of SAP Query	93
	4.1	Fundamentals	94
	4.2	Query Areas	96
	4.3	User Group	99
	4.4	InfoSet	103
	4.5	SAP Query	109
	4.6	Summary	114
5	Que	ry Utilities	115
	5.1	Overview of Query Utilities	116
	5.1	Overview of Query Objects	119
	5.3	Query Objects	121
	5.5	5.3.1 Overview of User Groups	121
		5.3.2 Query Overview	123
		5.3.3 Directory Lists	123
	5.4	Calling Query Object Descriptions	124
		5.4.1 User Group Description	124
		5.4.2 InfoSet Description	125
		5.4.3 Query Description	128
	5.5	Editing Functions for Query Objects	130
		5.5.1 Copy Function	131
		5.5.2 Trash Folder	133
		5.5.3 Query Transport	134
	5.6	Summary	135

PART II SAP Query Functions

6	Info:	Set in Detail	139
	6.1	Data Sources	141
	6.2	Automatic Text Recognition	143
	6.3	Table Join	145
	6.4	Field Groups	149
	6.5	Individual Additional Fields	153
	6.6	Selection	160
	6.7	Summary	163
7	SAP	Query in Detail	165
	7.1	Fundamentals	165
	7.2	Initial Screen	168
		7.2.1 Changing User Group	168
		7.2.2 Converting QuickView into a Query	169
		7.2.3 Additional Functions on the Initial Screen	171
		7.2.4 Additional Editing Options	174
	7.3	Query Creation Screen	176
		7.3.1 Query Title and Formatting	177
		7.3.2 Output Format	179
	7.4	Field Name	179
		7.4.1 Changing the Column Header of Query Fields	181
		7.4.2 Local Fields	182
		7.4.3 Selection Fields	186
	7.5	Basic List	187
	7.6	Additional Functions	188
	7.7	Summary	189
_	_		_
8	Sele	ction and Layout Variants	191
	8.1	Selection Screen	192
	8.2	Selection Variants	198
	8.3	Layout Variant	202
	8.4	Summary	204

9		ic Light Icons, Drilldown, Graphics, and Analyses	205
	9.1 9.2 9.3 9.4 9.5	Symbols Icons Drilldown Options Using Graphics and the ABC Analysis Summary	206 211 215 219 222
PAF	RT III	Designing User-Friendly Reports	
10		marized Data Output with Statistics and ked Lists	225
	10.3 10.4	Example: Open Item List Basic List Without a Graphical Query Painter Statistics Ranked List Summary	226 230 239 246 248
11	ABA	P Fundamentals in the InfoSet	249
	11.3	ABAP Dictionary Individual Data Objects in the InfoSet 11.2.1 Data Fields 11.2.2 System Fields Helpful ABAP Code 11.3.1 Sample Code on the Editor Screen 11.3.2 IF Statement 11.3.3 SELECT Loop 11.3.4 SELECT SINGLE Statement 11.3.5 Other Helpful ABAP Commands Using Your Own Code in the InfoSet Summary	276

12	Inte	gration with Microsoft Excel	279
	12.3	Data Browser	279 282 287 289
PAF	RT IV	Query Management	
13	Tran	sport System	293
	13.3 13.4	Transport Dataset	294 295 295 296 297 299 300
14	Data	Retrieval and Function Modules	303
	14.1 14.2 14.3	Secondary Index Table View Function Module 14.3.1 Function Module for Converting the Time Dimension in the InfoSet 14.3.2 Function Module for Displaying Texts Summary	304 307 314 314 320 329
15	Auth	norizations and Transaction Creation	331
	15.1	Transactions in the Query Environment User Groups Authorization Objects 15.3.1 Authorization Groups 15.3.2 Authorization Object S_QUERY	331 333 333 335

		Notes on Authorization Assignment	33 <i>/</i> 341
	15.5	15.5.1 SAP Notes	342
		15.5.2 Authorization Objects for Administrators and	3 .2
		Developers	342
	15.6	Summary	343
		,	
	DA DT 1/	Perk life Francisco	
	PARIV	Real-Life Examples	
	16 Rea	l-Life Examples	347
	16.1	Procedure When Creating Reports	347
		16.1.1 Brainstorming Workshop	347
		16.1.2 Specifying Reports	349
	16.2		351
	16.3	Financial Accounting Analysis — Open Items	359
		Production Planning — Measuring Productivity	366
	16.4	Troduction riaming — Measuring Productivity	500
		Summary	376
		· · · · · · · · · · · · · · · · · · ·	
		Summary	376
Ī	16.5	Summary	376
Ī	16.5	Summary	376 377
Ī	Append	Summary	376377377
Ī	Append A Impo	Summary lices ortant SAP Tables General	376 377 377 377
Ī	Append A Impo A.1 A.2	Summary lices ortant SAP Tables General Sales and Distribution	376 377 377 377 378
Ī	Append A Impo A.1 A.2 A.3	Summary Dices Dirtant SAP Tables General Sales and Distribution Production	376 377 377 378 380
	Append A Impo A.1 A.2 A.3 A.4 A.5	Summary Dirtant SAP Tables General Sales and Distribution Production Materials Management	376 377 377 378 380 381
	Append A Impo A.1 A.2 A.3 A.4 A.5	Summary Iices Ortant SAP Tables General Sales and Distribution Production Materials Management Financial Accounting and Controlling	376 377 377 378 380 381 384
	Append A Impo A.1 A.2 A.3 A.4 A.5 B The	Summary Iices Ortant SAP Tables General Sales and Distribution Production Materials Management Financial Accounting and Controlling	376 377 377 378 380 381 384 391

SAP Query is used to create analyses in real time without any great effort. Such analyses are used to optimize processes and master data, and to support corporate management. In your SAP ERP system, you can use the SAP Query functions without the need for any additional installations or license fees.

1 Introduction to SAP ERP Reporting

For enterprises, quickly and accurately accessing business information is vital. To this end, SAP provides an extensive portfolio of tools for report creation. The most important tools are as follows:

- Query reporting tools
- ► Report Painter/Report Writer
- ▶ Drilldown Reporting
- ► SAP NetWeaver Business Warehouse (SAP NetWeaver BW)/SAP BusinessObjects

The term *query reporting tools* comprises the following tools:

- ► SAP Query
- QuickViewer
- ► InfoSet Query

This chapter introduces you to SAP Query, Report Painter, and Drilldown Reporting, and distinguishes among these three tools and SAP NetWeaver BW. In addition, you will learn about frequently used standard SAP reports. After obtaining an overview of the basic requirements for report creation in Section 1.1, ABAP Report Generators, we will compare the three aforementioned query tools in Section 1.2, Query Reporting Tools. Here, you will learn when it is advisable to use the query reporting tools to query information directly in the SAP ERP system. In Section 1.3,

Comparing Analysis Tools: SAP Query and SAP NetWeaver BW, we will highlight the advantages of SAP Query over SAP NetWeaver BW.

If you need reports with summarized figures (totals), which is often the case in Financial Accounting (FI), we recommend that you use the following tools: Report Painter/Report Writer and Drilldown Reporting. In Section 1.4, Cumulated Analyses with Multilevel Hierarchies, you will see how SAP ERP is used in different enterprises with different business requirements. For the most important reporting requirements, which are often the same for many customers, a standard report is frequently available in SAP ERP. Before you create a new report, you should always check whether an existing report already covers your requirements (see Section 1.5, Using Standard Reports).

1.1 ABAP Report Generators

Analyzing requirements

At the start of every report, there is a specific requirements specification. After the data basis has been clarified, the user decides how to format the data and answers the following questions:

- ▶ What does the selection screen look like?
- ▶ Which field contents do you want to output?
- ▶ Which report jumps (drilldown) are useful?
- ▶ How do you want the data to be formatted?
 - Output length, decimal places, unit
 - Color display
- ▶ How do you want to summarize or display the data?
 - Summation levels
 - Excel display

Business and technical expertise

For example, a developer can use an ABAP report to format the data. However, a good ABAP developer requires time to output structured data. He needs not only technical expertise but also business knowledge, in particular.

Because the business requirements of an enterprise are often challenging, both detailed technical knowledge and industry knowledge are

essential. In addition to technical knowledge, a good consultant, key user, user, or developer must have some business knowledge to create the best analyses.

If you have a good level of technical knowledge, you must acquire the relevant business expertise. Because the analysis requirement is based on many years of real-life experiences, the question of simplified technical analysis options arises. Is it always necessary to create an analysis program from scratch? Are there easy ways to create ABAP code? The goal is to generate a good report and to access a simple report generator, either to accelerate the implementation speed or simply due to a lack of programming knowledge. Table 1.1 provides an overview of the most important report generators for you.

Simplified report creation via the report generator

Report Generator	Transaction	Focus in Real Life
SAP Query	SQ01	All SAP components
SAP NetWeaver BW		All SAP components
Report Painter	FGRP	► FI: General ledger, special ledger
		► CO: Overhead costs, product costs, Profit Center Accounting
Drilldown Reporting		► FI: General ledger, customers, vendors, special ledger
		► CO: Product costs, Profitability Analysis, Profit Center Accounting
		► TR: Cash Management, Treasury
		► IM: Investment Management
		► PS: Project System
LIS		► SD: Sales and Distribution, shipping, billing
		 MM: Purchasing, inventory management, invoice verification
		► QM: Quality Management
		► PM: Plant Maintenance
		► PP: Production Planning and Control

Table 1.1 Overview of the Most Important Report Generators for You

The term "query reporting tools"

SAP provides different utilities for creating ABAP code for an analysis. We already mentioned the most important reporting tools in the introduction, namely Report Painter/Report Writer, Drilldown Reporting, and SAP NetWeaver BW. The Logistics Information System (LIS) is another tool. The term *query reporting tools* is often used in different contexts, both in literature and in real life. Frequently, the term SAP query reporting is also used to describe the SAP NetWeaver BW reporting tools. However, this book concerns only those query reporting tools within the SAP ERP system.

In the next section, we will explain which query reporting tools are available to you.

1.2 Query Reporting Tools

This section provides a first impression of the functional scope of query reporting tools. We will compare the various options and application areas of SAP Query, InfoSet Query, and QuickViewer against each other and explain them in detail.

When we speak of query reporting tools, we mean the following three tools:

- ► SAP Query
- ► InfoSet Query
- ▶ QuickViewer

Functions of query reporting tools

The order in which these tools are listed reflects their decreasing functional scope. QuickViewer is the easiest tool to use, but it provides the lowest functionality of all three query tools. An overview of the most important functions is provided in Table 1.2.

Development of query reporting tools

In Release 4.6, SAP renamed one of its query reporting tools to SAP Query. Prior to Release 4.6C, it was known as the *ABAP Query Tool*. In the SAP solution portfolio, this tool is still listed under the ABAP development tools because it was originally intended for developers who wanted an easier way to generate ABAP code.

Criterion	SAP Query	InfoSet Query	QuickViewer
Transactions	SQ01, SQ02, SQ03	SQ10	SQVI
Functionality	Calculated additional fields, drilldown	Calculated additional fields, drilldown	-
Output	Basic list, ranked list, statistics	Basic list, ranked list, statistics	Basic list
Table logging	No	Can be activated	No

Table 1.2 Differences Among the Query Reporting Tools

To enable end users to create their own individual reports, InfoSet Query (initially intended for the Human Resources area) and QuickViewer (a particularly easy-to-use tool for occasional users) were developed in Release 4.6C. At the same time, the query tools were completely revised in terms of their performance and the way in which they create ABAP code. The user interface was also simplified.

SAP release changes

In the course of this further development, SAP changed many terms. Table 1.3 provides an overview of these terminology changes.

Terminology changes

Area	Term Before Release 4.6	Term as of Release 4.6
Tool name	ABAP Query	SAP Query
Data pool	Functional areas	InfoSet
Structuring of data	Functional groups	Field groups
Output format	ABAP List Viewer (ALV)	SAP List Viewer (ALV)

Table 1.3 ABAP/SAP Query Terms According to Release

However, all three query reporting tools have the same purpose, namely to create ABAP code easily and thus generate individual analyses.

You can use the following data sources as a data basis for these analyses Data sources (see Figure 1.1):

- ► Individual database table
- ► Table join

- ► Logical database
- ▶ InfoSet

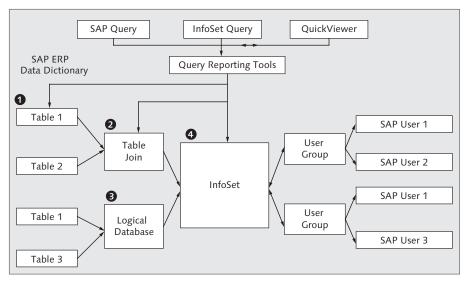


Figure 1.1 Relationships Between SAP Query Functions

Data source: database table In some cases, it is sufficient to query an individual database table (1). If you have the necessary authorization, you can also use the Data Browser to query the database directly. However, if you want to easily limit access and have a user-friendly query, it may make sense to create a query. It may also be productive to query only one database table (if this table already contains most of the information you require) and to read additional information in separate additional fields.

Data source: table join

Due to its simplicity and high implementation speed, QuickViewer has proven successful for one-time ad hoc analyses. In comparison to querying the table directly in the database, you can use QuickViewer to query several tables that are linked via fields. If two or more tables are linked with each other, this is known as a table join (2).

Logical database

Logical databases (contain information that has already been compiled for the creator of the report. Logical databases are the basis for linking SAP tables with each other. Even though a query is easily possible, the

predefined data basis carries the risk of unnecessary data content being queried. Consequently, the simplified query is synonymous with lower performance.

An InfoSet (4) is, for the most part, comparable with a table join. In QuickViewer, a transaction is the basis for defining the table join (data basis) and selecting the selection and layout fields. For SAP Query and InfoSet Query, a separate transaction is used to create the data basis as an InfoSet. An InfoSet can have a table, table join, or logical database as its data basis.

InfoSet

QuickViewer is frequently used in real life. A report can be created in just a few minutes, simply by using one transaction (SQVI) and knowing the database table(s). The newly created QuickViewer report is available locally but only to the creator of the report. If another user requires this report, it cannot be simply forwarded to the user. With SAP Query, however, it is possible to convert the new QuickViewer report into an SAP query. For detailed information about QuickViewer, see Chapter 3, OuickViewer.

Using QuickViewer

Creating an SAP query is not much more difficult than generating a QuickViewer report. Even though three transactions are used to create a report, report creation is also easy here if you are familiar with the logic. The use of SAP Query is usually preferred over the use of QuickViewer or InfoSet Query because it not only provides more options but also demands a more structured working method.

Using SAP Query

SAP Query enables you to specifically format data for individual information objects. In real life, master data is frequently queried using SAP Query. Consequently, numerous analyses exist for the following master data objects, in particular:

Master data reports

- Customers
- Vendors
- Materials
- Conditions
- Credit limit
- Work centers

- ► General ledger accounts
- Fixed assets

Displaying data in an ALV layout or in Excel These analyses enable the user to analyze his data individually. In real life, data displayed in an ALV layout or in Microsoft Excel is often received very positively. Because reports are individual, you can easily recognize duplicates or incorrect field content. You can then double-click the report to correct or adjust the data content directly.

Transaction data reports

With SAP Query, you can also select transaction data according to specific criteria. The status or document flow for orders is queried in this way, and you can specifically optimize the business process on this basis. For example, you can analyze the associated delivery or billing status for a sales order. If the actual status differs from the target status, the relevant departments, customers, or vendors can be informed in good time and specific measures can be taken. In particular, icons (e.g., a red traffic light) are used to highlight critical statuses. The following data objects, in particular, are analyzed in real life:

- ▶ Sales orders
- Deliveries
- ▶ Billing documents
- Purchase orders
- ▶ Production orders
- ▶ Open items

Corporate management Many enterprises also use SAP Query for corporate management. Many customers require analyses for incoming orders or sales, for example. In addition, many enterprises create stock analyses or target production quantity analyses to display fact-based enterprise results.

Distinguishing between SAP Query and SAP NetWeaver BW If you have large datasets and complex cross-module analyses, you soon reach the limitations of SAP Query. However, the use of SAP NetWeaver BW is undisputed in such cases. Be that as it may, not all (small and medium-sized) enterprises use a SAP NetWeaver BW system, or they only use some aspects of SAP NetWeaver BW. In the next section, we will discuss the criteria for and against SAP Query (when compared with SAP NetWeaver BW).

1.3 Comparing Analysis Tools: SAP Query and SAP NetWeaver BW

If your enterprise has sufficient resources (time, money, and technical expertise), we recommend using SAP NetWeaver BW or SAP Business-Objects alongside SAP Query. Examples of SAP BusinessObjects products include Crystal Reports (formatted reporting), Xcelsius Enterprise (dashboarding), and Web Intelligence (ad hoc analysis).

Required resources

Table 1.4 compares and contrasts the most important distinguishing characteristics between SAP Query and SAP NetWeaver BW, especially in terms of the resources used.

Criterion	SAP Query	SAP NetWeaver BW
License fees, interfaces, maintenance, and hardware	Part of the SAP ERP license	Additional license fees frequently necessary (especially if you also want to use SAP BusinessObjects)
Installation	Can be used immediately	Additional installation and hardware frequently necessary
System configuration	Query transactions immediately available	Must be configured independently
Individual real-time analysis	Access to live data with drilldown in real time	Data usually updated in an overnight job

Table 1.4 Comparing Analysis Tools: SAP Query and SAP NetWeaver BW

In terms of resource usage, there are many advantages to using the SAP Query reporting tools:

Advantages of query reporting tools

- ► In contrast to SAP NetWeaver BW/SAP BusinessObjects, you can use SAP Query without needing to procure additional licenses.
- ▶ Because report creation via SAP Query occurs directly in the SAP ERP system, no additional maintenance is necessary.

- ► The need for a separate system installation or configuration is eliminated as a result of using the query tools directly in the SAP ERP system.
- ► You do not have to configure any interfaces or restore them after you perform a system copy.
- ▶ You can already create reports even if you have very little system knowledge. In particular, you require little or no knowledge of ABAP. Even after just a short time, you can create your own queries or analyze existing analyses.
- ► The time needed to create reports is comparably low because reports can be created from a single source (business knowledge can be applied directly).
- ▶ Individual information can be queried promptly, and the data already stored in the database is available immediately (in real time). In transactions, you can use a drilldown to navigate directly to the display screen or change screen for data.

Query reporting tools enable SAP users to analyze specific master data objects and process information without the need for a lengthy training phase. As the report recipient/key user, you can create a new report from scratch (on the basis of the data analysis) and only include absolutely necessary information in your reporting environment. You decide which fields you want to output in a list, which selection criteria you will provide, or how you want the data to be formatted.

We recommend using SAP NetWeaver BW to query mass data. If you want to query extensive datasets at a highly aggregated level, it is more productive to use SAP NetWeaver BW because of its runtime. For financial analyses, you can use Report Painter to create aggregated analyses.

1.4 Cumulated Analyses with Multilevel Hierarchies

Analyzing hierarchy nodes

The purpose of corporate management reports is to analyze data at a summarized level. If you want to obtain an overview of your enterprise's key performance indicators (KPIs), a top-down analysis will accomplish this goal for you. For example, a top hierarchy node is displayed in Cost Center Accounting. This hierarchy node is then gradually expanded in

accordance with the hierarchy levels. If variances arise, the values are initially called for each account and then for each line item. This means that the report user initially obtains the data information at a highly summarized level and can display this data in greater detail, if necessary. In the system, you can maintain hierarchies for many objects. In Financial Accounting (FI), in particular, a good hierarchy structure (summarization of characteristics) can cover many reporting requirements.

1.4.1 Summarization Hierarchies

In the SAP system, separate transactions are used to maintain summarization levels. Depending on the purpose of the report, the information characteristics (e.g., cost centers) must be summarized in accordance with different criteria. For example, an enterprise summarizes its cost center information in accordance with its responsibilities on one hand and in accordance with functional viewpoints on the other. Different time-based groupings are also required. For the current fiscal year, actual values must be queried in accordance with the first grouping while, for the subsequent year, planned values must be queried in accordance with the second grouping.

Summarization criteria

To fulfill your analysis requirements, the SAP software enables you to group master data objects at multiple levels and in accordance with different criteria. In the SAP system, a hierarchy (also technically known as a set) is used to group master data. Table 1.5 lists the most important transactions for summarizing master data.

Master data hierarchies

Master Record	Create	Change	Display
Financial statement version	OB58	FSE2	FSE3
Cost elements	KA01	KA02	KA03
Standard cost centers	-	OKEON	OKENN
Alternative cost centers	KS02	KS02	KS03
Statistical key figures	KK01	KK02	KK03
Activity types	KL01	KL02	KL03
Internal orders	KO01	KO02	KO03

Table 1.5 Transactions for Master Data Hierarchies

Master Record	Create	Change	Display
Standard profit center	KCH1	KCH5N	KCH6N
Alternative profit center	KCH1	KCH2	KCH5
CO-PA characteristics	KES1	KES2	KES3
Sets, general	GS01	GS02	GS03

Table 1.5 Transactions for Master Data Hierarchies (Cont.)

Querying hierarchy nodes in the query In the context of queries, you can also query the information in master data hierarchies. For example, when analyzing work centers, you can display the assigned cost center. In the query, you can then determine the associated cost center node on the basis of the cost center. You can query a summarization level in SAP Query. If you want to display the information characteristics at multiple levels, Report Painter and Drilldown Reporting report tools will usually accomplish this goal for you.

1.4.2 Report Painter

Database tables

Report Painter accesses database tables in the same way SAP Query does. Because Report Painter is usually used in real life, we will not discuss Report Writer. Report Writer — considered by most users to be too technical — can be regarded as a precursor to Report Painter. Almost all of the Report Writer functions have been incorporated into Report Painter. Because there are still some minor functional differences between the two tools, and some of the Report Writer reports delivered by SAP still exist, both tools continue to coexist in the system.

Reporting tables

The most important related database tables are grouped together to form reporting tables. Reporting tables are predefined and comprise a certain number of characteristics and key figures. The relationships between the database tables, the reporting tables, and the characteristics and key figures are shown in Figure 1.2.

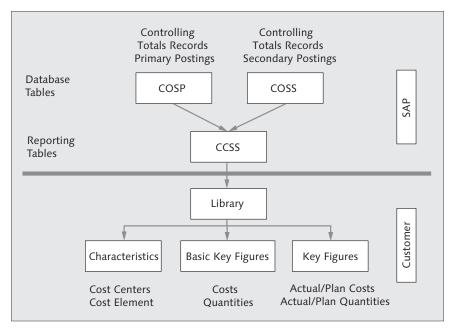


Figure 1.2 Relationships Among Database Tables, Reporting Tables, and Report Painter Libraries

SAP has defined database tables and reporting tables. Approximately 60 reporting tables are delivered in the standard SAP ERP system. You can structure the contents of the reporting tables in libraries. A library represents a selection of characteristics and key figures associated with a particular reporting table. Therefore, please check whether the reporting tables delivered by SAP contain the analysis characteristics and key figures you require.

Report Painter is particularly suitable for the following areas:

- ► Cost Center Accounting
- ► Internal orders
- ▶ Analyses in accordance with cost of sales accounting
- ▶ Profit Center Accounting
- ► Reconciliation ledgers (if the new general ledger is not used)
- ► Special ledgers

Libraries

Areas in which Report Painter can be used

- ▶ General ledger
- ► Project System (PS)
- ► Product Cost Planning

You should examine the use of Report Painter in these areas. The following two examples demonstrate the advantages associated with using Report Painter in this context.

Example 1: Controlling report

Figure 1.3 shows the first example, namely a controlling report. The controlling report analyzes account groups in individual rows. In a master data hierarchy, individual accounts are grouped together. Planned, actual, and variance costs are displayed in the columns. In addition, key figures are calculated in the lower section of the report. As in Excel, specific column and row positions are used as a basis. Report Painter is an excellent reporting instrument in Overhead Cost Controlling and Profit Center Accounting, in particular.

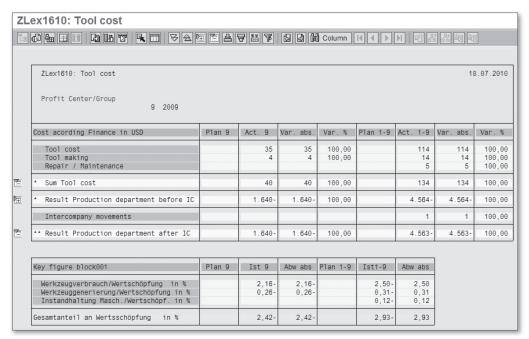


Figure 1.3 Example of a Controlling Report in Report Painter

You can also create very good analyses in FI. In real life, Report Painter is very often used to create a provisions report. Figure 1.4 shows you the creation screen for a Report Painter report.

Example 2: Provisions report

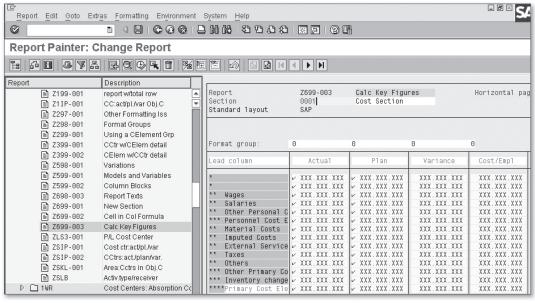


Figure 1.4 Example of a Provisions Report in Report Painter

The different applications are displayed on the left-hand side of the screen as libraries. You now obtain a report generator as an Excel display. By double-clicking the rows and columns, you can use the contents you require. The two axes are displayed in the original report display accordingly. This display is also known as WYSIWYG (What You See Is What You Get).

The Report Painter interface is comparable with an Excel spreadsheet. Consequently, planned or actual values for each period or fiscal year are usually displayed in the columns. In the rows, the data is displayed in accordance with an expandable summarization group (e.g., a cost element); in other words, the report structure is fixed in terms of the columns and rows displayed. If you now want to analyze other char-

Characteristics and key figures acteristics or key figures in the rows or columns, you must adjust the report accordingly.

Distinguishing between Report Painter and Drilldown Reporting The Drilldown Reporting tool affords you the flexibility to change the characteristics in the report display. This tool has many interactive functions, which we will describe in the next section.

1.4.3 Drilldown Reporting

Drilldown Reporting provides you with an interactive analysis of your cumulated data. The Drilldown Reporting function is used in FI, in particular. Table 1.6 shows the most important transactions for report creation.

Master Record	Report Overview	Create Form	Change Form	Display Form	Create Report	Change Report	Display Report
GL accounts New GL	FGI0	FGI4	FGI5	FGI6	FGI1	FGI2	FGI3
GL accounts Classic GL	FSI0	FSI4	FSI5	FSI6	FSI1	FSI2	FSI3
Customers	FDI0	FDI4	FDI5	FDI6	FDI1	FDI2	FDI3
Vendors	FKI0	FKI4	FKI5	FKI6	FKI1	FKI2	FKI3
Profit centers	KE80	KE81	KE82	KE83	KE84	KE85	KE86
Projects	CJE0	CJE1	CJE2	CJE3	CJE4	CJE5	CJE6
CO-PA totals records	KE30	KE34	KE35	KE36	KE31	KE32	KE33
CO-PA line items	KE30	KE94	KE95	KE96	KE91	KE32	KE33

Table 1.6 Transactions for Creating Reports in Drilldown Reporting

Example: Key figure reports

You can use the Drilldown Reporting tool to create key figure reports, in particular. For example, you can create valuable key figure reports in Profitability Analysis (CO-PA) and Financial Accounting (FI). An example of a key figure report is shown in Figure 1.5.

Formular ZLEX99SAVE ZLe	x Group ReportB	latt 1	1 1					
	IST &3FY	in %	IST &3FY	in %	IST &1FY	in %	IST LJ in %	PLAN &1FY
	1 - &1PT		1 - 12		1 - &1PT		&3FY 1 - 12	1 - &1PT
KEY FIGURES	1			1		1		
Liquidity 4								
Cash Ratio (Cash/Sh-t liab. > 20-30)	0	←xxx,xx	0	+xxx,xx	Θ	⊞XXX,XX	0	
Quick Ratio (Cash+Rec./Sh-t liab. > 100)	0	←xxx,xx	0	←xxx,xx	Θ	⊞XXX,XX	0	
Current Ratio (Cu.Ass./Sh-t liab. > 200)		⊞XXX,XX	0	⊞XXX,XX	0	⊞XXX,XX	0	
Intensity of Cash (Cash/Assets)	0	⊞XXX,XX	0	⊞XXX,XX	0	⊞XXX,XX	0	
Assets & Liabilities								
Intensity of Stock (Stock/Assets)	0	⊞XXX,XX	0	⊞XXX,XX	0	⊞XXX,XX	0	
Stock turnover (months)	0	0	0	0	0	⊞XXX,XX	9	
Receiv. turnover Third Party (months)	0	В	А	В	А	А	0	
Receiv. turnover Intercompany (months)	0	A	0	A	0	A	ñ	
Reveiv. turnover Intercompany (months)	n n	A	0	A	9	A	ñ	
Payables turnover Total (months)	0	A	0	A	9	A	n n	
Gross turnover / current assets	⊞ XXX.XXX.XXX		⊞ XXX.XXX.XXX		■ xxx.xxx.xxx	A	ñ	
Gross turnover / current assets in days	■ XXX.XXX.XXX		■ XXX.XXX.XXX		■ XXX.XXX.XXX	A	ñ	
IC Loans to Equity (Thin capital. Rule)		⊞XXX,XX		⊞XXX,XX		⊞xxx,xx	ñ	
Profitability		1-444,44		1-444,441		1-AAA AA		
Salary Costs to Gross Margin on Sales		⊞xxx,xx	9	⊞xxx,xx	Θ	⊞xxx,xx	0	
Gross Margin on Net Sales		⊞xxx.xx		⊞xxx xx		⊞XXX,XX	Θ	
EBITAD Margin (EBITAD/Net Sales)	0	⊞xxx.xx	Θ	⊞xxx xx	Θ	⊞XXX,XX	9	
EBIT Margin (EBIT/Net Sales)	0	⊞XXX,XX	9	⊞XXX,XX		⊞XXX,XX	0	
Income Margin (Result b. tax/Net Sal.)	0	⊞XXX,XX		⊞XXX,XX		⊞XXX,XX	0	
Earnings Margin (Result a. tax/Net Sal.)	0	⊞XXX,XX	0	⊞XXX,XX	0	⊞XXX,XX	0	
Covenants								
Equity Ratio (Equity/Liabilities)		⊞XXX,XX		⊞XXX,XX		⊞XXX,XX	0	
Interest Coverage Ratio (EBIT/Int.Res.)		⊞XXX,XX		⊞XXX,XX		⊞XXX,XX	0	
Borrowing Ratio (EBITAD/Bank Debts)	0	⊞XXX,XX	0	⊞XXX,XX	В	⊞XXX,XX	0	

Figure 1.5 Drilldown Reporting — Key Figure Report

When creating a Drilldown Reporting report, you must first define a form that will contain field contents at field level. As in Excel, a field can represent row 3, column 4, for example. In real life, key figures such as EBIT (Earnings Before Interest and Tax) are determined (1).

Form in Drilldown Reporting report

The most important part of a Drilldown Reporting report is the creation of the report form. You can also use Report Painter technology to create the form. You therefore require very little additional knowledge to create your own Drilldown Reporting report.

SAP delivers numerous reports in the standard system. For each application area, there is one central transaction with which you can execute Drilldown Reporting reports:

Drilldown Reporting reports in the standard system

- ► FGI0 New General Ledger (New GL)
- ► FSIO Classic General Ledger
- ► FDIO Accounts Receivable Accounting

- ► FKIO Accounts Payable Accounting
- ► KE80 Profit Center
- ► KE30 CO-PA (Totals Item and Line Item Reports)
- ► CJEO Project Reports

[+] Using Report Templates

Before you create a new report, take a look at the previously mentioned transactions to see if the report you require already exists. Frequently, it is useful to use an existing report as a template for a new report.

Figure 1.6 shows various balance sheet reports with different time periods for the classic general ledger.

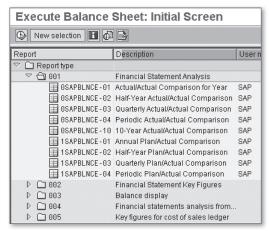


Figure 1.6 Extract of a Standard SAP Report in the Classic General Ledger

Cash flow reports

Predefined key figure reports are delivered in addition to the various reports for financial statement analysis. Four sample reports for displaying the cash flow are available, for example. One advantage of the Drilldown Reporting tool is the flexible selection of analysis characteristics. Open customer items were analyzed in Figure 1.7.

Here, you will see the four areas of the Drilldown Reporting tool:

The navigation bar (1) contains various characteristics for a specific data selection. In our example, open items were selected for Austria. The Period/year characteristic was then selected.

Navigation bar

In the lower-left screen area (2), you can define predefined key figures. In our example, the debit/credit amount is shown.

Key figures

The selected data is also displayed in the breakdown (3). In our example, you see when the open items for Austria fall due. You could now use drag and drop to further analyze these values (e.g., in accordance with the Customer criterion).

Breakdown

Area (4) is a graphical representation of the data that you have Graphic selected.

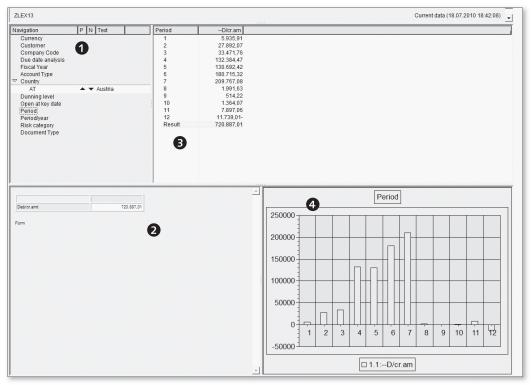


Figure 1.7 Example of a Drilldown Reporting Report for the Analysis of Open Customer Items

In summary, Report Painter and Drilldown Reporting are excellent tools for creating reports in FI. These tools are also considerably faster than using SAP Query or standard SAP transactions for a summarized display of single records, especially when you want to display cumulated data and use multilevel hierarchies.

In addition to the summary reports shown in this section, SAP ERP has numerous excellent standard reports. In the next section, we will introduce you to a selection of these reports.

1.5 Using Standard Reports

Not every analysis is customer-specific, and it is not always necessary to create a new (query) report. In the standard system, there are many good predefined analyses that provide the information you require. This section shows how you can find standard analyses in the system. Before you create a new report, you should check whether the report you need already exists in the standard system. The most important reports for real-life scenarios are also listed.

1.5.1 SAP Area Menus

One way to identify standard reports is to use area menus. Area menus are menu trees that are predefined by SAP and contain the most important transactions for certain areas of application. There are approximately 1,500 area menus. You can call the area menus by entering a transaction code in the command field.

Sales and Distribution area menu (Transaction SD01) In the command field, enter Transaction SD01 for the Sales and Distribution area menu (see Figure 1.8).

Instead of the entire SAP menu, your initial screen displays the most important transactions in the Sales and Distribution menu. Under the SALES • QUOTATIONS menu path, you find six different transactions for analyzing quotations.

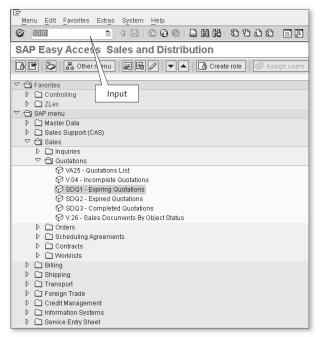


Figure 1.8 Calling the Sales and Distribution Area Menu

You can use Transaction SE43 (Area Menu) to find the SAP area menu. Enter Transaction SE43 in the command field to display the AREA MENU Maintenance screen (Figure 1.9).

Area menu maintenance (Transaction SE43)

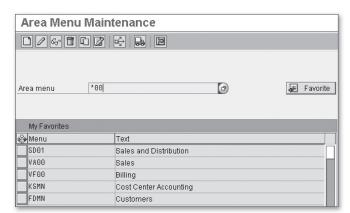


Figure 1.9 Displaying Area Menus in Transaction SE43

Matchcode (Transaction SE41)

Here, you can use the matchcode F4 to select the relevant menu for you. You either search through all 1,500 area menus (approximately), or you use the explanatory text to restrict the number of menus. For example, you could use the text "Sales" to find an area menu. Because many important area menus have the ending MN or 00, you could perform a *MN or *00 search in the area menu. By entering an asterisk before the two zeros, you get all area menus that end with MN or 00. Call the matchcode F4 in Transaction SE41, and enter your restriction (see Figure 1.10).

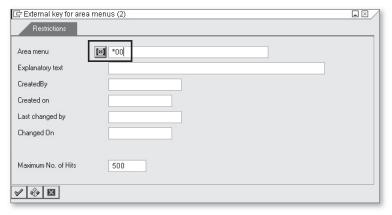


Figure 1.10 Looking for an Area Menu

You obtain approximately 125 different area menus in your search result. The actual transactions are listed on the left-hand side of the result. For example, your search result contains Transaction VA00 for the SALES area menu (see Figure 1.11).

Sales area menu (Transaction VA00) If you now enter Transaction VA00 in the command field, a menu branch containing the relevant transactions from the Sales area is displayed. Expand the Information System • Quotations path in the menu branch, and the system displays six transactions for analyzing quotations.

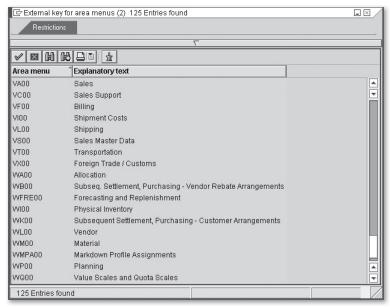


Figure 1.11 Displaying Area Menus Ending with 00

1.5.2 Finding a Report in the SAP Menu

You can also find standard reports by searching the entire SAP menu for a term. To do this, enter Transaction SEARCH_SAP_MENU in the command field (as shown in Figure 1.12).

Transaction
SEARCH_SAP_
MENU



Figure 1.12 Entering "search_sap_menu" in the Command Field

After you have entered the command "search_sap_menu" or pressed the key combination [Ctrl] + [F], the system displays the SEARCH IN MENU transactions

TREE dialog box. You can enter any term here. You can also use an * as a wildcard. For example, if you search for "Customer master*", the transaction for calling the customer master record is displayed. Alternatively, enter the term "Quotations" in the FIND field (see Figure 1.13).



Figure 1.13 Entering the Search Term "Quotations" in Transaction "search_sap_menu"

After you have chosen the button with the green checkmark to confirm the search term "Quotations", the system displays the relevant menu paths on the next screen. You now have an accurate overview of the menu item that contains the transactions for analyzing quotations (see Figure 1.14).

Search for a Transaction Code or Menu Title				
Node	Transaction code	Text		
Nodes Preceding node	V.04	Display Incomplete Quotations Inquiry and Quotation Service Agreements Report Selection Information System Equipment and Tools Management Logistics		
Nodes Preceding node	SDQ1	Expiring Quotations Inquiry and Quotation Service Agreements Report Selection Information System Equipment and Tools Management Logistics		
Nodes Preceding node	SDQ2	Expired Quotations Inquiry and Quotation Service Agreements Report Selection Information System Equipment and Tools Management Logistics		

Figure 1.14 Search Result for the Term "Quotations" in the SAP Menu

In this way, you find the same transactions as the ones you found when searching the area menu. However, because menu branches are displayed when you search the SAP menu, we generally recommend that you search the SAP menu directly.

1.5.3 Searching the Menu for Standard Reports

You can perform a search directly in the actual application for which you require an analysis. In the standard SAP menu, select the following menu branch, for example: LOGISTICS • SALES AND DISTRIBUTION • SALES • INFORMATION SYSTEM • QUOTATIONS. After you have expanded the QUOTATIONS menu item, you find six transactions for analyzing quotations (see Figure 1.15).

Searching an SAP component

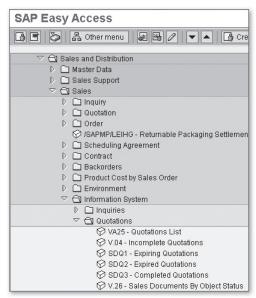


Figure 1.15 Searching the SAP Menu for Transactions for Analyzing Quotations

In addition to searching the information system for the relevant application, you can also search the Information Systems menu item. As well as the application components from the Logistics, Accounting, and Human Resources areas, a cross-application menu branch with analyses is also available (see Figure 1.16).

"Information Systems" menu item

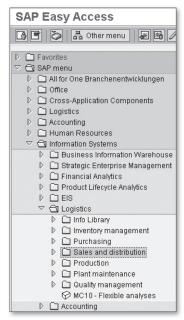


Figure 1.16 Standard SAP Menu: Information Systems

In addition to the reports available under Information Systems, SAP has created additional transactions that are not yet available in the standard menu. We will introduce you to these transactions in the next section.

1.5.4 Important Standard Transactions

On feedback from its customers, SAP has revised many transactions and equipped them with improved functions. However, existing transactions have not been changed. Instead, they coexist with the newly revised transactions, which have the suffix N.

List of Quotations (Transaction VA25 and VA25N) For example, Transaction VA25N is now available in addition to the former Transaction VA25 for querying quotations (List of Quotations).

Transaction VA25 has six selection fields (see Figure 1.17). However, the new transaction (VA25N) is considerably more flexible because its new selection screen contains the new and improved functions for analyzing quotations (see Figure 1.18). Additional display functions are available for the report, which now has a modernized layout. Furthermore, you can display and change quotations directly.

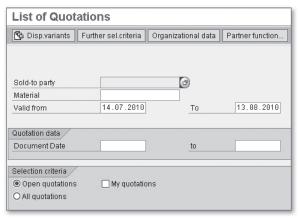


Figure 1.17 Transaction VA25 - List of Quotations

List of Quotations		
(b)		
Docum.Data		
Document Number	to	\$
Sales Document Type	to	➾
Sold-To Party	to	44444
Document Date	to	₽
Material	to	4
Valid From	to	\$
Purchase Order Number		
Partner Functions Responsible Personnel Number Responsible Created By	to to	\$
Organizat. data		
Sales Organization	to	\$
Distribution Channel	to	44444
Division	to	5
Sales Office	to	
Sales Group	to	5
Selection Crit.		
Open Quotations		
All Quotations		

Figure 1.18 Transaction VA25N — List of Quotations

Table 1.7 contains a selection of transactions that are not available in the SAP menu.

Application	Transaction	Description
Sales and Distribution	VA05N	List of Sales Orders
Sales and Distribution	VA15N	List of Inquiries
Sales and Distribution	VA25N	List of Quotations
Sales and Distribution	VA35N	List of Scheduling Agreements
Sales and Distribution	VA45N	List of Contracts
Sales and Distribution	VF05N	List of Billing Documents
Purchasing	ME80AN	General Analyses (Inquiry)
Purchasing	ME80FN	General Analyses (Purchase Order)
Purchasing	ME80RN	General Analyses (Contract, Scheduling Agreement)
Purchasing	ME81N	Analysis of Purchase Order Values

Table 1.7 Transactions with Extensive Options

The new transactions provide highly flexible options. In the Purchasing transactions, for example, you can navigate directly to the purchasing documents (e.g., purchase order) or the material master. In the purchasing analyses, you can also display the purchase schedule lines and purchase order history.

1.6 Summary

In SAP ERP, SAP provides the following three query reporting tools for data queries: SAP Query, InfoSet Query, and QuickViewer. You can use these tools immediately in the SAP ERP system without any extensive training or additional costs for online data queries.

When analyzing mass data and highly summarized financial key figures, we recommend that you use SAP NetWeaver BW or Report Painter. The Report Painter technology is also used in the Drilldown Reporting tool. In addition, the standard system already contains numerous analyses.

In real life, there are numerous application scenarios in which SAP Query has advantages over SAP NetWeaver BW and Report Painter. In query reporting, it is important to find the correct table with the relevant data content. We will therefore explain how to find the relevant tables in the next chapter, Overview of SAP Tables and Table Links.

Index

Α	Authorization, 30, 331
ADAD 26 240 247	Authorization assignment, 333
ABAP, 26, 249, 347	Authorization check, 335
ABAP/4 Dictionary information system,	Authorization group, 335
332	Authorization group, 335
ABAP code, 29, 331, 332	Authorization object, 333, 334, 335
ABAP Dictionary, 70, 249, 250, 254	_DEVELOP, 335
ABAP Dictionary maintenance, 332	S_DEVELOP, 334, 335
ABAP list, 192, 232, 237, 279	S_GUI, 334
ABAP List Viewer (ALV), 29	S_PROGRAM, 334, 335
ABAP program flow check, 334	S_QUERY, 334, 336
ABAP Query, 28	S_TABU_DIS, 334, 335
ABAP report generator, 26	S_TCODE, 334
ABAP Workbench, 334	Automatic text recognition, 140, 143
ABC analysis, 221	Average value, 241
Account group, 38	
Accounts payable accounting, 42	_
Accounts receivable accounting, 42	<u>B</u>
Activity type, 35	
Additional field, 139, 143, 153, 154,	Basic list, 187, 209, 225
166, 258	Basis mode, 77, 89
Add ABAP code, 156	Billing document, 32, 352, 353
Create, 155	Brainstorming workshop, 347
Define, 155	Business Warehouse -> see SAP
Additional information, 257	NetWeaver BW, 25
Additional object, 257	
Additional table, 258	
Ad hoc analysis, 30	C
Ad hoc query, 77	
Administrator authorization, 64, 331	Calculation
ALV layout, 32, 88	Complex, 184, 213
ALV -> see SAP List Viewer, 88	Calculation formula, 210, 213
Analysis of purchase order values, 52	CALL FUNCTION, 263
Archive administration, 332	Cancellation, 370
Archiving, 58	CAUFV, 381
Archiving object, 66, 67	Change authorization, 333
Area	Change lock, 178
Global, 294	Characteristic value, 195
Area menu, 44	Check table, 252
Arithmetic operation, 275, 357	Classic general ledger, 42
Assign report, 217	Clipboard
Attributes	Upload, 195
Special, 192	CL_TEXT_IDENTIFIER, 143

Authorization, 30, 331

CLUSTER -> see Cluster table, 54 Logical, 30, 58, 61, 62, 63, 84, 85, Cluster table, 54 CO account assignment, 356 Database table -> see Table, 53 Code for extra. 257 Database utility, 305 Column header, 237 Data basis, 26, 29, 78, 348 Column name, 229 Data Browser, 53, 55, 73, 79, 279 Command field, 46 Data declaration, 255 Comparison operand, 267 Data Dictionary, 54, 249 Complex calculation, 184, 213 Data display, 54 Data element, 249, 252, 254 CONCATENATE, 275 Condition subtotal, 357 Data export, 289, 335 Confirmation key figure, 370 Data field, 106, 255 Consistency check, 299 Data formatting, 26 Consultant, 348 Data Modeler, 332 Control break, 203 Data object, 254 Control level, 232 Data record Controlling report, 38 Number, 241 Control Panel, 281 Data retrieval, 303 Convert QuickView, 167, 169 Data selection, 192, 196, 201 CO-PA, 42, 351 Data sensitivity, 332 CO-PA characteristic, 36 Dataset, 294 CO-PA line item. 40 Data source, 29, 78, 83, 86, 104, 141 CO-PA totals record, 40 Data type -> see Table link, 146 Corporate management, 32, 347 Date, 238 Cost element, 35 Date field, 199 Country analysis, 355 Date variable, 199 Create transaction code, 339 Dynamic, 199 Currency field, 254 Day in arrears, 365 Customer, 40 DD02L, 55 Customer characteristic, 363 DDIC -> see ABAP Dictionary, 249 Debit/credit indicator, 362 Customer document, 365 Customer Line Items, 360 Decimal place, 252 Customer master, 72, 355 Delivery, 32 Customer name, 360 Developer authorization, 331 Customizing client, 96 Development package, 340 Display fields, 77 Document status, 226 Domain, 250, 253 Drilldown, 34, 215, 351 D010TAB, 104 Drilldown Reporting, 25, 40 Due date for net payment, 364 Data Duet, 279 Filter, 191 Global, 294 Sort, 191

Total, 191 Database, 249

E	Footers, 89
	Form, 41
Editor screen, 262	Format
ELSEIF statement, 267	Line color, 235
Employee	Formatting, 90
Responsible, 360	Functional area, 29
End-of-Selection, 277	Text, 294
Enterprise area, 347	Functional area catalog, 294
Event, 276	Functional group, 29
Excel -> see Microsoft Excel, 191	Function module, 263, 303
Export function, 296	UNIT_CONVERSION_SIMPLE, 372
Extras button, 256	
	G
F	
	General ledger, 42
F1 help, 58, 60	Classic, 42
Feasibility of implementation, 348	New, 42
FI document, 226	General selection, 193
Field	General table display, 55
Hide, 199	GL account, 40
Local, 182, 209, 210, 373	Global property, 335
Protect, 199	Global query area, 93, 96, 294
Short name in the query, 183	Graphic, 232
Field assignment, 356	Graphical join editor, 146
Field documentation, 146	Graphic type, 220
Field formatting, 91	Grouping, 35
Field group, 29, 106, 139, 149, 180,	Group of users, 347
209, 213	GUI activity, 334
Add additional field, 159	
Add field, 152	
Create, 153, 158	Н
Default, 149	
Function, 151	Header, 232
Field group view, 256	Header data and item data, 60, 74
Field help, 58	Hierarchy, 34
Field query, 265	Hierarchy node, 36
Field without values	HTML data format, 288
save, 199	
File	
Local, 289	1
File storage, 288	<u>-</u>
Financial Accounting, 41	Icon, 185, 211
Financial statement analysis, 42	Filter criterion, 214
Financial statement version, 35	ICON_GREEN_LIGHT, 210
Footer, 232	ICON_LED_GREEN, 373

ICON_RED_LIGHT, 186 Legacy System Migration Workbench, STATUSCODE, 209 222 IF statement, 265, 356 Library, 37 Import from a text file, 195 License, 33 Import from text file, 197 LIKE statement, 266 Import option, 299 Line structure, 232 Industry template, 348 Link suggestion, 106 Information LIS -> see Logistics Information System, Technical, 59 351 Information system, 49 List field, 78, 86, 90, 188, 209 InfoSet, 25, 28, 30, 84, 93, 94, 99, 104, List line color, 234 List of billing documents, 52 108, 109, 111, 139, 181, 254, 276 ABAP code, 139 List of contracts, 52 Literal, 256 Documentation (key), 294 Insert table, 145 Local field, 182, 209, 210 Role assignment of call, 294 Create, 183 Transport, 297 Define, 184 Inquiry, 52 Select, 209 Installation, 33 Local file, 289 Internal order, 35 Logical Database Builder, 332 INTTAB -> see Structure, 54 Logical database -> see Database, 58 Items -> see Open items, 32 Logistics Information System (LIS), 28, 351 Loop selection, 268 LSMW -> see Legacy System Migration Workbench, 222 Join editor Graphical, 146 Jump, 217 Maintenance, 33 Management, 348 K Master data hierarchy, 35 Master data quality, 347 Key field, 145, 249, 251, 304 Key figure, 239 Master data report, 31 Statistical, 35 Material number, 370 Measuring productivity, 366 Merge, 298 Message area, 264 MESSAGE command, 264 Message output, 264 Language, 78 Microsoft Excel, 32, 279, 287 Layout design, 112 Functions, 280 Layout mode, 89, 230 Graphic, 284 Layout variant, 188, 191, 202, 203 Inplace, 202, 280 Left inner join -> see Table join, 148 Interface, 202, 279, 280, 289 Left outer join -> see Table join, 148

Template, 286, 290
Microsoft Office, 287
Microsoft Word, 286
Multiple data records, 154
Multiple selection, 193, 194, 196, 197

N

New general ledger -> see General ledger, 42 Null value, 90, 235

O

Object Navigator, 70
Office Integration, 287
Open item list, 226
Open items, 32, 361
Order reason, 355
Output format, 179, 192, 219, 230, 232, 287
Output length, 90
Output option
Field, 232
Line, 232
Output position, 90
Output sequence, 244, 246

P

Page footer, 236
Page header, 232, 236
Parameter, 198
Parameter ID, 169
AQW, 98
Parameters -> see Selection, 160
Percentage, 241, 243
Performance, 195, 303
Performance analysis, 332
PFCG role, 332, 337
Pivot table, 287
POOL -> see Pool table, 54
Pool table, 54

Q

Quantity field, 254 Query, 25, 28, 31, 93, 94 ABAP report, 173 Authorization, 334 Change lock, 178 Column header, 181 Copy, 175 Delete, 175 Documentation (key), 294 Editing option, 174 Formatting option, 167 Initial screen, 168 Long text, 167 Name, 177 Navigation, 177 Output format, 167 Rename, 175 Report name, 172 Screen template, 179 Standard variant, 178 Test. 188 Text, 294 Transport, 297 User group, 165 Query area, 93, 94, 96, 99, 293 Change, 168 Global, 93, 96 Query catalog, 294, 299

Query report Convert, 77	<u>S</u>
Query reporting tool, 25, 28, 77	Sales, 46
QuickViewer, 25, 28, 30, 31, 77, 95,	Sales and Distribution characteristic, 360
331	Sales document, 74
Editing function, 81	
Layout mode, 89	Sales document category, 353
	Sales evaluation, 351
Online help, 82	Sample code, 262
Operating instructions, 82	SAP business graphic, 284
Report overview, 81	SAP BusinessObjects, 33
QuickViewer initial screen, 77, 80	SAP GUI, 280, 281
Quotation, 50	SAP List Viewer, 29, 192, 193, 202, 225,
	230, 232, 248, 335
	SAP NetWeaver BW, 25, 33
R	SAP Note 119665, 300
	SAP Note 127182, 300
Ranked list, 225, 246	SAP Note 127717, 300
Reconstruct catalog, 299	SAP Note 130316, 300
Relational operand, 201	SAP Note 202839, 300
Replace, 298	SAP Note 352617, 300
Report, 27	SAP Note 393044, 300
Report creation	SAP Note 393160, 300
Procedure, 347	SAP Note 412054, 300
Report definition, 348, 350	SAP Note 431192, 300
Report generator, 27	SAP Note 643330, 300
Report house, 349	SAP Query report
Reporting table, 36	Convert, 77
Report Painter, 25, 34, 36	SAP Query -> see Query, 25, 28, 31, 93
Report Painter library, 37	SAP table -> see Table, 53
Report recipient, 348	Scaling, 235, 241
Report/report interface, 188, 215, 216	S_DEVELOP -> see Authorization object,
Report RSAQR3TR, 295	334
Report specification, 349, 350	SEARCH_SAP_MENU, 47
Report template, 42, 348	Search screen, 196
Report type, 216	Secondary index, 304
Report Writer, 25, 36	Select field, 229
Required field, 199	Select field group, 229
Returns item, 354	Selection, 140, 160, 256
Role administration, 332	Define, 160
Role maintenance, 332	General, 193
Role -> see User role, 333	Parameter, 140
RRI -> see Report/report interface, 216	Parameters, 160
rad > 500 report report interface, 210	Selection criterion, 55, 140, 160,
	191, 193, 198
	Single value, 191
	Value interval, 191
	vatue tittetvat, 191

Selection characteristic, 193	Structure, 54, 70, 250, 256
Selection criterion -> see Selection, 140,	Subtotal, 202, 203, 241, 244
160	Summarization hierarchy, 35
Selection field, 78, 186, 230	Summation function, 225
Selection option, 194, 195	Summation level, 238, 283
Selection screen, 26, 77, 85, 187, 191,	Switch off GPA, 199
192	System configuration, 33
Selection text, 229	System field, 260, 261
Selection variable, 199	SY-DATE, 261
Selection variant, 178, 191, 192, 198	SY-DBCNT, 261
SELECT loop, 268	SY-INDEX, 261
SELECT SINGLE statement, 257, 272,	SY-LANGU, 261
355	SY-SUBRC, 260, 261, 323
Set, 35	SY-TABIX, 261
Set/get parameter, 174	SY-TIME, 261
S_GUI -> see Authorization object, 334	SY-UNAME, 261
SHOWICON, 211	SYST -> see System field, 261
SHOWSYMB, 210	
Signature Design, 280	
Single value, 193	Т
Sort field, 89	-
Sorting, 241	Table, 29, 53, 56, 84, 106, 141
Sort order, 204	Controlling, 384
Special attributes, 192	Direct read, 368
Spool output, 289	Financial Accounting, 384
Spreadsheet, 287	General, 377
S_PROGRAM -> see Authorization	Global, 294
object, 334	Insert, 105
SQL trace, 66	Materials Management, 381
S_QUERY -> see Authorization object,	Overview, 377
334	Production, 380
S_TABU_DIS -> see Authorization	Sales and Distribution, 378
object, 334	Transparent, 54, 57
Standard, 35	Table A017, 383
Standard area, 169, 293, 296	Table A305, 379
Client-specific, 98	Table A306, 379
Standard profit center, 36	Table access, 335
Standard query area, 93, 96, 100	Table ADRC, 378
Standard report, 44	Table AFKO, 381
Start-of-Selection, 276	Table AFPO, 370, 381
Statistic, 239	Table AFRU, 366
Title, 239	Table AFVC, 381
Statistical key figures, 35	Table AFVV, 366, 381
Statistics, 225	Table ANEK, 387
S_TCODE -> see Authorization object,	Table ANEP, 387
334	Table ANLA, 387

Table ANLB. 387 Table DD03L, 377 Table ANLP, 387 Table description, 249 Table ANLZ, 387 Table determination, 58 Table AQGDB, 294 Table EINA, 383 Table AQGIDOC, 294 Table EINE, 383 Table AQGQDOC, 294 Table EKKN, 383 Table AQLDB, 294 Table EKKO, 383 Table AQLIDOC, 294 Table EKPO, 383 Table AQLQCAT, 294 Table entry Table AQLQDOC, 294 Language-dependent, 78 Table AQLQSTRUC, 378 Table FAGLFLEXA, 388 Table AQLSCAT, 294 Table FAGLFLEXP, 388 Table FAGLFLEXT, 388 Table AQLTQ, 294, 378 Table AQLTS, 294 Table field, 249 Table GLPCA, 389 Table AQRLASS, 294 Table AQSLDB, 294 Table GLPCC, 389 Table AQTDB, 294 Table GLPCO, 389 Table AUFK, 381 Table GLPCT, 389 Table BKPF, 387 Table JEST, 377 Table BNKA, 386 Table join, 29, 30, 84, 104, 105, 139, Table BSAD, 387 141, 144, 148, 166, 270 Table BSAK, 387 Left inner join, 139, 148 Table BSAS, 387 Left outer join, 139, 148 Table BSEC, 387 Table KNA1, 274, 351, 378, 385, 386 Table BSEG, 387 Table KNAS, 385 Table BSET, 387 Table KNB1, 385, 386 Table KNB4, 385, 386 Table BSID, 226, 273, 362, 387 Table BSIK, 387 Table KNB5, 385 Table BSIP, 388 Table KNBK, 385 Table KNC1, 388 Table BSIS, 387 Table BVOR, 387 Table KNEX, 378 Table category, 54, 57 Table KNKA, 379 Table CDHDR, 377 Table KNKK, 379 Table CDPOS, 377 Table KNMT, 378 Table COBK, 389 Table KNVA, 378 Table COEJ, 389 Table KNVD, 378 Table content, 55, 296 Table KNVH, 378 Table COSP, 389 Table KNVK, 378 Table COSS, 389 Table KNVL, 378 Table CRHD, 368 Table KNVP, 378 Table CSKA, 388 Table KNVS, 378 Table CSKB, 388 Table KNVT, 378 Table CSKS, 389 Table KNVU, 378 Table CSKT, 389 Table KNVV, 363, 378 Table CSKU, 388 Table KONM, 383 Table D010TAB, 95, 166, 377 Table KONP, 379, 383 Table DD02L, 55, 377 Table LFA1, 382, 385

Table LFB1, 385 Table T030, 386 Table T052, 388 Table LFB5, 385 Table LFBK, 385 Table T052U, 388 Table T100, 378 Table LFC1, 388 Table LFEI, 382 Table TADIR, 377 Table LFM1, 382 Table TFDIR, 377 Table LFM2, 382 Table TJ02, 377 Table LIKP, 379 Table TPARA, 377 Table link, 142, 252, 254, 255 Table trace, 58, 64 Data type, 146 Table TSTC, 95, 166, 258 Table LIPS, 379 Table TSTCT, 77, 78, 95, 250 Table logging, 29 Table TVDIR, 377 Table LTDX, 378 Table VBAK, 59, 62, 75, 379 Table maintenance, 334 Table VBAP, 66, 75, 379 Table MAKT, 270, 382 Table VBEP, 75 Table MARA, 270, 382 Table VBFA, 75 Table MARC, 270, 382 Table VBKD, 75, 379 Table MARD, 270, 384 Table VBPA, 75, 351 Table MARDH, 384 Table VBRP, 351 Table MAST, 380 Table VBUK, 75, 379 Table MBEW, 270, 382 Table VBUP, 76, 379 Table MBEWH, 382 Table VBUV, 75 Table MKOL, 384 Table view, 54, 366 Table MKPF, 384 Table VTTK, 379 Table VTTP, 379 Table MODACT, 377 Table MSEG, 384 Target productivity, 367 Table MSKU, 384 Target time Table MSLB, 384 Order confirmation, 376 Table MVER, 382 Technical information, 59 Term of payment, 364 Table MVKE, 270, 382 Table name, 294 Test client, 98 Table PAYR, 388 Test mode, 242 Table PLKO, 380 Text field, 140, 143 Text identification, 143 Table PLPO, 380 Table REGUH, 388 Text recognition Table REPOSRC, 173, 377 Automatic, 140, 143 TABLES command, 258 Time conversion, 372 Table SKA1, 386 Time unit, 371 Time unit conversion -> see Time unit, Table SKAT, 386 Table SKB1, 386 371 Table STAS, 380 Top-down analysis, 34 Table STKO, 380 Top key figure value, 225 Table STPO, 380 Top-of-Page, 277 Table SYST, 378 Traffic light icon, 211, 374 Table T001, 273, 384 Traffic light status, 373 Table T001L, 381 Transaction Table T001W, 381 Name, 217

Transaction code text, 143 Transport route, 293 Transaction data report, 32 Transport system, 96, 293, 294 Transaction FBL5N, 359 Transport tool, 295, 299 TRANSP -> see Table, 54 Transaction FGRP, 27 TYPE statement, 255 Transaction ME80AN, 52 Transaction ME80FN, 52 Transaction ME80RN, 52 Transaction ME81N, 52 U Transaction N. 279 Transaction PFCG, 332, 337 Unassign, 299 Transaction SARA, 58, 67, 332 Upload from clipboard, 197 Transaction SD01, 44 User department, 348 Transaction SD11, 332 User group, 93, 94, 99, 101, 102, 165, Transaction SE11, 332 331, 333 Transaction SE16, 55 Change, 168 Transaction SE16N, 55, 79, 279, 332 Copy, 99 Transaction SE36, 58, 61, 332 Delete, 99 Transaction SE38, 174 Rename, 99 Transaction SE43, 45 SYSTQV, 173 Transaction SE54, 335 Transport, 297 Transaction SE80, 58 User profile, 169 Transaction SE85, 70, 332 User role, 333 Transaction SQ01, 27, 29, 81, 93, 97, 109, 165, 167, 192, 193, 228, 331 Transaction SQ02, 29, 93, 97, 141, 227, V 295, 332, 335 Transaction SQ03, 29, 93, 97, 99, 295, Value credit memo, 354 331, 332, 336 Value debit memo, 354 Transaction SQ07, 332 Variable, 236 Transaction SQ10, 29, 332 Variant, 191 Transaction SQVI, 29, 31, 80, 331 Preassignment, 192 Transaction ST05, 58, 64, 332 Variant attribute, 198, 199 Transaction VA00, 46 Vendor, 40 Transaction VAO*, 79 View field, 368 Transaction VA05N, 52 VIEW -> see Table view, 54 Transaction VA15N, 52 View structure, 54 Transaction VA25, 50 Transaction VA25N, 50, 52 Transaction VA35N, 52 W Transaction VA45N, 52 Transaction VF05N, 52 WHERE condition, 258 Transparent table -> see Table, 57 Where-used list, 58, 68 Transport dataset, 294 Windows Explorer, 285 Transport dataset (local), 294 Word processor, 286 Transport option, 297 Workbench request, 341 Transport request, 296 WYSIWYG, 39