

SQL Reference Guide

Fundamentals

Creating a Table

```
CREATE TABLE cities (  
  city VARCHAR(30) NOT NULL,  
  state VARCHAR(30) NOT NULL,  
  population INT  
);
```

The `CREATE TABLE cities` statement creates and names a table within a database.

Within the parentheses, the data to be inserted is specified. Similar to headers in an Excel spreadsheet, `city`, `state`, and `population` define this data.

Inserting Values

```
INSERT INTO cities (city,  
  state, population)  
VALUES ('Alameda',  
  'California', 79177);
```

The `INSERT INTO` statement first specifies the table and columns, then the `VALUES` line inserts the corresponding data.

Viewing the Table

Tables are easily viewed by using the `SELECT` statement.

```
SELECT *  
FROM cities;
```

The `*` signifies selecting all available data, while `FROM` indicates the specific table to view.

Syntax note: the use of a semicolon signifies the completion of a code set, called a statement terminator. While most interpreters are smart enough to work without one, not all will and it is best practice to end a SQL statement in this manner.

Queries

Queries retrieve specific data from within a table. The query can be customized to be as broad or specific as the user wishes with the use of conditional operators.

WHERE:

```
// Return rows with a specific  
value in column_a  
SELECT *  
FROM table_1  
WHERE column_a = 'value';
```

WHERE and AND:

```
// Include multiple values with  
the AND operator  
SELECT *  
FROM table_1  
WHERE column_a = 'value'  
AND column_b = 'value';
```

WHERE and OR:

```
// Return data containing  
either one value or another  
using the OR operator  
SELECT *  
FROM table_1  
WHERE column_a = 'value'  
OR column_b = 'value';
```

WHERE and IN:

```
// Return data containing  
multiple values in a column  
using the IN operator  
SELECT *  
FROM table_1  
WHERE column_a IN ('value_a',  
  'value_b');
```

WHERE NOT:

```
// Exclude certain data with  
the WHERE NOT operators  
SELECT *  
FROM table_1  
WHERE NOT column_a = 'value';
```

WHERE and NOT IN:

```
// Exclude certain values from  
a query using the NOT IN  
operators  
SELECT *  
FROM table_1  
WHERE column_a NOT IN  
('value_a', 'value_b');
```

Joins

Data combined from different sets of data, or tables, is referred to as a join. Joins are completed using a column that is common between tables.

LEFT JOIN: returns all records from the left table and the matched records from the right table.

```
SELECT column(s)  
FROM table_1  
LEFT JOIN table_2  
ON table_1.column_name =  
  table_2.column_name;
```

RIGHT JOIN: returns all records from the right table, and the matched records from the left table.

```
SELECT column(s)  
FROM table_1  
RIGHT JOIN table_2  
ON table_1.column_name =  
  table_2.column_name;
```

INNER JOIN: returns records that have matching values in both tables.

```
SELECT column(s)  
FROM table_1  
INNER JOIN table_2  
ON table_1.column_name =  
  table_2.column_name;
```

CROSS JOIN: returns records that match every row of the left table with every row of the right table. This type of join has the potential to make very large tables. Note that there are no additional conditions to be met to join the data.

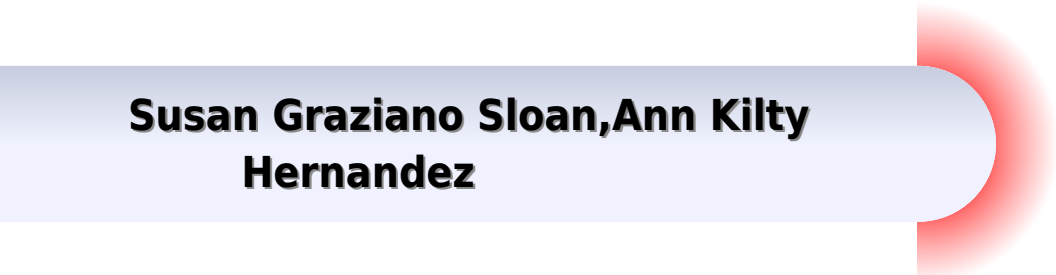
```
SELECT column(s)  
FROM table_1  
CROSS JOIN table_2;
```

FULL OUTER JOIN: after an inner join is performed, null values are placed within the columns that do not match between the two tables. Note that the `OUTER` keyword is optional when using this join.

```
SELECT column(s)  
FROM table_1  
FULL OUTER JOIN table_b  
ON table_1.column_name =  
  table_2.column_name;
```

Db2 Sql Reference Guide

**Susan Graziano Sloan, Ann Kilty
Hernandez**



Db2 Sql Reference Guide:

SQL/400 Developer's Guide Paul Conte, Mike Cravitz, 2000 IBM and the rest of the computer industry are putting most of their DBMS development efforts into SQL This reference provides the SQL 400 skills that a successful applications developer needs and shows how to create comprehensive complex and professional SQL 400 databases *DB2 Developer's Guide* Craig Mullins, 1992 Written for technical users of DB2 this reference book provides hard to find information about this database Packed with tips and experience based techniques this book also delivers information on coding efficient SQL monitoring and tuning DB2 performance *DBAs Guide to Databases Under Linux* Syngress, 2000-04-26 In an effort to increase its marketshare and threat to Windows NT Oracle8 was ported to Linux in late 1998 opening the popular database to an additional 10 million Linux users worldwide The availability of Oracle8 enables current Linux users to deploy enterprise class applications at low cost and provides an alternative to Microsoft Windows NT This book covers that marriage of the most popular database and the fastest growing operating system Complete coverage Covers both Oracle8i and Oracle8i Lite as well as Oracle Applications Oracle Applications Server and Oracle Developer Organizations and Oracle database administrators will be looking for information on Linux as is gets adopted this book fits the bill Covers two growth markets and fills a need for information not covered elsewhere *Database* Patrick O'Neil, 2014-05-12 Database Principles Programming Performance provides an introduction to the fundamental principles of database systems This book focuses on database programming and the relationships between principles programming and performance Organized into 10 chapters this book begins with an overview of database design principles and presents a comprehensive introduction to the concepts used by a DBA This text then provides grounding in many abstract concepts of the relational model Other chapters introduce SQL describing its capabilities and covering the statements and functions of the programming language This book provides as well an introduction to Embedded SQL and Dynamic SQL that is sufficiently detailed to enable students to immediately start writing database programs The final chapter deals with some of the motivations for database systems spanning multiple CPUs including client server and distributed transactions This book is a valuable resource for database administrators application programmers specialist users and end users **DB2 Universal Database for OS/390** Susan Graziano Sloan, Ann Kilty Hernandez, 2001 This book will be written for people who are new to the DB2 product The readers users will be migrating from desktop systems or coming from other popular database systems such as Oracle Many will be also coming from other operating systems such as Windows and UNIX **Introduction to the New Mainframe: IBM z/VSE Basics** Mike Ebbers, Wolfgang Bosch, Hans Joachim Ebert, Helmut Hellner, Jerry Johnston, Marco Kroll, Wilhelm Mild, Wayne O'Brien, Bill Ogden, Ingolf Salm, Joerg Schmidbauer, Martin Walbruehl, IBM Redbooks, 2016-03-02 This IBM Redbooks publication is based on the book Introduction to the New Mainframe z OS Basics SG24 6366 which was produced by the International Technical Support Organization ITSO Poughkeepsie Center It provides students of information systems

technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages and be PC literate. This textbook can also be used as a prerequisite for courses in advanced topics or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation. It is also not a reference book that discusses every feature and option of the mainframe facilities. Others who can benefit from this course include experienced data processing professionals who have worked with non-mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment. As we go through this course, we suggest that the instructor alternate between text lecture discussions and hands-on exercises. Many of the exercises are cumulative and are designed to show the student how to design and implement the topic presented. The instructor-led discussions and hands-on exercises are an integral part of the course and can include topics not covered in this textbook. In this course, we use simplified examples and focus mainly on basic system functions. Hands-on exercises are provided throughout the course to help students explore the mainframe style of computing. At the end of this course, you will be familiar with the following information: Basic concepts of the mainframe including its usage and architecture; Fundamentals of IBM z/VSE; VSE, an IBM z/OS Systems entry mainframe operating system; OS; An understanding of mainframe workloads and the major middleware applications in use on mainframes today; The basis for subsequent course work in more advanced specialized areas of z/VSE such as system administration or application programming.

SAP on DB2 for z/OS and OS/390: High Availability and Performance Monitoring with Data Sharing Viviane Anavi-Chaput, David Bellion, Tim Bohlsen, Humberto Carrasco, Mike Gordon, Flavio Lima, Mary Siart, Mike Zazulak, IBM Redbooks, 2004-03-01. This IBM Redbooks publication addresses the challenges posed by monitoring high availability, scalability, and performance in an SAP sysplex data sharing environment. It introduces the motivations for utilizing a design based on DB2 data sharing. It includes the principal SAP DB2 data sharing architecture options and trade-offs used in the industry today and issues that play a role in both high availability and scalability such as failover design, database connectivity design, workload splitting, and load balancing. MCO and coupling facility design. The book discusses single point of failure, important failover scenarios, and outage avoidance automation of high availability constructs and backup and recovery considerations in data sharing environments. Performance issues are detailed in the order you would approach them at planning and implementation time. First, it discusses tuning the sysplex, which is the base for a well-performing DB2 data sharing system; then, tuning the DB2 data sharing system, which is the base for a well-performing SAP system; and finally, tuning the SAP system. The book focuses on initial planning for performance and monitoring it afterward and explains the key points to look for to health check your system and maintain high performance.

Solving the Year 2000 Software Problem United States. Congress. House. Committee on Science. Subcommittee on Technology, 1996 **DB2 SQL PL** Zamil Janmohamed, Clara Liu, Drew Bradstock, Raul F. Chong, Michael X. Gao, Fraser McArthur, Paul Yip, 2005 Straight from IBM the ultimate DB2 PL SQL resource and the FIRST and ONLY to cover DB2 UDB 8 2 Grid Computing Joshy Joseph, Craig Fellenstein, 2004 The book is an introduction to grid computing a strategy central to IBM s plans to help organizations succeed through better sharing of resources It includes case studies which demonstrate how organizations have success with grid computing across a variety of industries

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