SQL Basics Cheat Sheet

SQL

SQL, or Structured Query Language, is a language to talk to databases. It allows you to select specific data and to build complex reports. Today, SQL is a universal language of data. It is used in practically all technologies that process data.

SAMPLE DATA

COUNTRY

id	name	population	area
1	France	66600000	640680
2	Germany	80700000	357000
...	...	...	...

CITY

id	name	country_id	population	rating
1	Paris	1	2243000	5
2	Berlin	2	3460000	3
...	...	...	...	...

QUERYING SINGLE TABLE

Fetch all columns from the `country` table:
```
SELECT *
FROM country;
```

Fetch `id` and `name` columns from the `city` table:
```
SELECT id, name
FROM city;
```

Fetch city names sorted by the `rating` column in the default ASCending order:
```
SELECT name
FROM city
ORDER BY rating [ASC];
```

Fetch city names sorted by the `rating` column in the DESCending order:
```
SELECT name
FROM city
ORDER BY rating DESC;
```

ALIASES

COLUMNS
```
SELECT name AS city_name
FROM city;
```

TABLES
```
SELECT co.name, ci.name
FROM city AS ci
JOIN country AS co
  ON ci.country_id = co.id;
```

FILTERING THE OUTPUT

COMPARISON OPERATORS

Fetch names of cities that have a rating above 3:
```
SELECT name
FROM city
WHERE rating > 3;
```

Fetch names of cities that are neither Berlin nor Madrid:
```
SELECT name
FROM city
WHERE name != 'Berlin'
  AND name != 'Madrid';
```

TEXT OPERATORS

Fetch names of cities that start with a 'P' or end with an 's':
```
SELECT name
FROM city
WHERE name LIKE 'P%'
  OR name LIKE '%s';
```

Fetch names of cities that start with any letter followed by 'ublin' (like Dublin in Ireland or Lublin in Poland):
```
SELECT name
FROM city
WHERE name LIKE '_ublin';
```

OTHER OPERATORS

Fetch names of cities that have a population between 500K and 5M:
```
SELECT name
FROM city
WHERE population BETWEEN 500000 AND 5000000;
```

Fetch names of cities that don't miss a rating value:
```
SELECT name
FROM city
WHERE rating IS NOT NULL;
```

Fetch names of cities that are in countries with IDs 1, 4, 7, or 8:
```
SELECT name
FROM city
WHERE country_id IN (1, 4, 7, 8);
```

QUERYING MULTIPLE TABLES

INNER JOIN

`JOIN` (or explicitly `INNER JOIN`) returns rows that have matching values in both tables.
```
SELECT city.name, country.name
FROM city
[INNER] JOIN country
  ON city.country_id = country.id;
```

CITY			COUNTRY	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Warsaw	...	...	Poland

LEFT JOIN

`LEFT JOIN` returns all rows from the left table with corresponding rows from the right table. If there's no matching row, `NULL`s are returned as values from the second table.
```
SELECT city.name, country.name
FROM city
LEFT JOIN country
  ON city.country_id = country.id;
```

CITY			COUNTRY	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Warsaw	4	NULL	NULL

RIGHT JOIN

`RIGHT JOIN` returns all rows from the right table with corresponding rows from the left table. If there's no matching row, `NULL`s are returned as values from the left table.
```
SELECT city.name, country.name
FROM city
RIGHT JOIN country
  ON city.country_id = country.id;
```

CITY			COUNTRY	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
NULL	NULL	NULL	3	Iceland

FULL JOIN

`FULL JOIN` (or explicitly `FULL OUTER JOIN`) returns all rows from both tables – if there's no matching row in the second table, `NULL`s are returned.
```
SELECT city.name, country.name
FROM city
FULL [OUTER] JOIN country
  ON city.country_id = country.id;
```

CITY			COUNTRY	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Warsaw	4	NULL	NULL
NULL	NULL	NULL	3	Iceland

CROSS JOIN

`CROSS JOIN` returns all possible combinations of rows from both tables. There are two syntaxes available.
```
SELECT city.name, country.name
FROM city
CROSS JOIN country;

SELECT city.name, country.name
FROM city, country;
```

CITY			COUNTRY	
id	name	country_id	id	name
1	Paris	1	1	France
1	Paris	1	2	Germany
2	Berlin	2	1	France
2	Berlin	2	2	Germany

NATURAL JOIN

`NATURAL JOIN` will join tables by all columns with the same name.
```
SELECT city.name, country.name
FROM city
NATURAL JOIN country;
```

CITY			COUNTRY	
country_id	id	name	name	id
6	6	San Marino	San Marino	6
7	7	Vatican City	Vatican City	7
8	8	Greece	Greece	8
10	10	Monaco	Monaco	10

`NATURAL JOIN` used these columns to match rows: city.id, city.name, country.id, country.name. `NATURAL JOIN` is very rarely used in practice.

Understanding The New Sql A Complete Guide

**Association for Computing Machinery.
Special Interest Group on
Management of Data**

Understanding The New Sql A Complete Guide:

Understanding the New SQL Jim Melton,Alan R. Simon,1993 The only book you ll ever need on SQL The authors detail the changes in the new standard and provide a thorough guide to programming with SQL 2 for both newcomers and experienced programmers The book is one that novice programmers should read cover to cover and experienced DBMS professionals should have as a definitive reference book for the new SQL 2 standard *A Complete Guide to DB2 Universal Database* Don Chamberlin,1998-06 This is a guide designed to familiarize users with the DB2 standard while helping to optimize their use of the technology **Component Database Systems** Klaus R. Dittrich,Andreas Geppert,2000-10-25 Component Database Systems is a collection of invited chapters by the researchers making the most influential contributions in the database industry s trend toward componentization This book represents the sometimes divergent sometimes convergent approaches taken by leading database vendors as they seek to establish commercially viable componentization strategies Together these contributions form the first book devoted entirely to the technical and architectural design of component based database systems In addition to detailing the current state of their research the authors also take up many of the issues affecting the likely future directions of component databases If you have a stake in the evolution of any of today s leading database systems this book will make fascinating reading It will also help prepare you for the technology that is likely to become widely available over the next several years Is comprised of contributions from the field s most highly respected researchers including key figures at IBM Oracle Informix Microsoft and POET Represents the entire spectrum of approaches taken by leading software companies working on DBMS componentization strategies Covers component focused architectures methods for hooking components into an overall system and support for component development Examines the component technologies that are most valuable to Web based and multimedia databases Presents a thorough classification and overview of component database systems *The Object Data Standard* Roderic Geoffrey Galton Cattell,Douglas K. Barry,Mark Berler,2000 ODMG is a widely accepted standard for object database modelling every year more companies implement it ODMG 3 0 integrates programming languages with databases and ensures the portability of applications across platforms and DBMS products **Management of Heterogeneous and Autonomous Database Systems** Ahmed K. Elmagarmid,Marek Rusinkiewicz,Amit Sheth,1999 An Overview of Multidatabase Systems Past and Present Athman Bouguettaya Boualem Benatallah Ahmed Elmagarmid Local Autonomy and Its Effects on Multidatabase Systems Ahmed Elmagarmid Weimin Du Rafi Ahmed Semantic Similarities Between Objects in Multiple Databases Vipul Kashyap Amit Sheth Resolution of Representational Diversity in Multidatabase Systems Joachim Hammer Dennis McLeod Schema Integration Past Present and Future Sudha Ram V Ramesh Schema and Language Translation Bogdan Czejdo Le Gruenwald Multidatabase Languages Paolo Missier Marek Rusinkiewicz W Jin Interdependent Database Systems George Karabatis Marek Rusinkiewicz Amit Sheth Correctness Criteria and Concurrency Control Panos K Chrysanthis Krithi Ramamritham

Transaction Management in Multidatabase Systems Current Technologies and Formalisms Ken Barker Ahmed Elmagarmid Transaction Based Recovery Jari Veijalainen   *Database Modeling and Design* Toby J. Teorey,1999 This work has been revised and updated to provide a comprehensive treatment of database design for commercial database products and their applications The book covers the basic foundation of design as well as more advanced techniques and also incorporates coverage of data warehousing and OLAP On Line Analytical Processing data mining object relational multimedia and temporal spatial design   **Joe Celko's Data and Databases** Joe Celko,1999-08-10 This text covers basic database concepts to provide a conceptual understanding of data and databases necessary for database design and development   *Managing Reference Data in Enterprise Databases* Malcolm Chisholm,2001 This is a great book I have to admit I wasn t enthusiastic about the idea of a book with such a narrow topic initially but frankly it s the first professional book I ve read page to page in one sitting in a long time It should be of interest to DBAs data architects and modelers programmers who have to write database programs and yes even managers This book is a winner Karen Watterson Editor SQL Server Professional Malcolm Chisholm has produced a very readable book It is well written and with excellent examples It will I am sure become the Reference Book on Reference Data Clive Finkelstein Father of Information Engineering Managing Director Information Engineering Services Pty Ltd Reference data plays a key role in your business databases and must be free from defects of any kind So why is it so hard to find information on this critical topic Recognizing the dangers of taking reference data for granted Managing Reference Data in Enterprise Databases gives you precisely what you ve been seeking A complete guide to the implementation and management of reference data of all kinds This book begins with a thorough definition of reference data then proceeds with a detailed examination of all reference data issues fully describing uses common difficulties and practical solutions Whether you re a database manager architect administrator programmer or analyst be sure to keep this easy to use reference close at hand Features Solves special challenges associated with maintaining reference data Addresses a wide range of reference data issues including acronyms redundancy mapping life cycles multiple languages and querying Describes how reference data interacts with other system components what problems can arise and how to mitigate these problems Offers examples of standard reference data types and matrices for evaluating management methods Provides a number of standard reference data tables and more specialized material to help you deal with reference data via a companion Web site   *Data Mining* Ian H. Witten,Eibe Frank,2000 This book offers a thorough grounding in machine learning concepts combined with practical advice on applying machine learning tools and techniques in real world data mining situations Clearly written and effectively illustrated this book is ideal for anyone involved at any level in the work of extracting usable knowledge from large collections of data Complementing the book s instruction is fully functional machine learning software   **Database Design, Application Development, and Administration** Michael Mannino,2018-09-01 Formerly published by Chicago Business Press now published by Sage Database Design Application Development and

Administration Seventh Edition offers a comprehensive understanding of database technology Author Michael Mannino equips students with the necessary tools to grasp the fundamental concepts of database management and then guides them in honing their skills to solve both basic and advanced challenges in query formulation data modeling and database application development **The Practical SQL Handbook** Judith S. Bowman,Sandra L. Emerson,Marcy Darnovsky,1993 A complete guide to using SQL in the workplace The Practical SQL Handbook guides readers step by step through the basic vocabulary and functions of the language and describes how to use it to develop applications It covers the fundamentals of database design security and data integrity **Microsoft SQL Server Training** Microsoft Corporation,1996 **Parallel Database Techniques** Mahdi Abdelguerfi,Kam-Fai Wong,1998-08-13 Parallel processing technology in the next generation of Database Management Systems DBMSs make it possible to meet challenging new requirements Database technology is rapidly expanding new application areas brings unique challenges such as increased functionality and efficient handling of very large heterogeneous databases Abdelguerfi and Wong present the latest techniques in parallel relational databases illustrating high performance achievements in parallel database systems The text is st5ructured according to the overall architecture of a parallel database system presenting various techniques that may be adopted to the design of parallel database software and hardware execution environments These techniques can directly or indirectly lead to high performance parallel database implementation The book s main focus follows the authors engineering model A survey of parallel query optimization techniques for requests involving multi way joins A new technique for a join operation that can be adopted in the local optimization stage A framework for recovery in parallel database systems using the ACTA formalism The architectural details of NCR s new Petabyte multimedia database system A description of the Super Database Computer SDC II A case study for a shared nothing parallel database server that analyzes and compares the effectiveness of five data placement techniques Advances in Powder Metallurgy & Particulate Materials--1996 ,1996 **Database Systems'99** John F. Roddick,1999-04-01 This volume contains the proceedings of the 10th Australasian Database Conference ADC99 held 18 21 January 1999 in Auckland New Zealand The 18 refereed papers presented at the conference are divided into six topical sessions and includes the latest research in areas such as data mining data warehousing information retrieval multidimensional databases and workflow systems This book thus summarises some of the most recent research development and novel applications of databases *Australian Computer Journal* ,1996 **Proceedings of the Seventeenth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems** Association for Computing Machinery. Special Interest Group on Management of Data,1998 **Proceedings of the Sixth International Conference on Information and Knowledge Management** Forouzan Golshani,Kia Makki,1997 **Proceedings of the Seventeenth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems** ACM Special Interest Group for Algorithms and Computation Theory,Association for Computing Machinery. Special Interest Group on Management of

Data,1998 **Migrating Legacy Systems** Michael L. Brodie,Michael Stonebraker,1995 Information systems that resist modification and don t support organizational requirements are a critical business problem The authors present a step by step strategy for complete IS migration to a new environment and discuss the potential problems and alternatives that may arise in the process

The book delves into Understanding The New Sql A Complete Guide. Understanding The New Sql A Complete Guide is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Understanding The New Sql A Complete Guide, encompassing both the fundamentals and more intricate discussions.

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web the three musketeers is a marvelous journey and should be appreciated foremost for its engaging story the techniques dumas employed to such success in 1840 particularly his mastery of the form of the romance still work today as we saw in the closing portions of the book dumas gives us a fully developed romance within his historical framework

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web the three musketeers is a 2011 period action adventure film directed by paul w s anderson and loosely based on alexandre dumas s 1844 novel of the same title it stars matthew macfadyen logan lerman ray stevenson milla jovovich luke evans mads mikkelsen orlando bloom and christoph waltz

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web the musketeers is a british period action drama program based on the characters from alexandre dumas s 1844 novel the three musketeers 1 and co produced by bbc america and bbc worldwide 1 the series follows the musketeers athos aramis and porthos as they serve king louis xiii and citizens of 17th century paris

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