

# 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

id	name	population	rating
1	France	65000000	4.50000
2	Germany	82000000	4.70000

id	name	country_id	population	rating
1	Paris	1	2100000	4
2	Berlin	2	3500000	4

## 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 ASC (ascending) order:

```
SELECT name
FROM city
ORDER BY rating DESC;
```

Fetch city names sorted by the rating column in the DESC (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 4:

```
SELECT name
FROM city
WHERE rating > 4;
```

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 'Y':

```
SELECT name
FROM city
WHERE name LIKE 'P%'
OR name LIKE '%Y';
```

Fetch names of cities that start with any letter followed by 'dd' (like Dublin in Ireland or Lublin in Poland):

```
SELECT name
FROM city
WHERE name LIKE '%_dd%';
```

### OTHER OPERATORS

Fetch names of cities that have a population between 500K and 1M:

```
SELECT name
FROM city
WHERE population BETWEEN 500000 AND 1000000;
```

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	Moscow	3	3	Russia

### 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** 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	Moscow	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** 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	Russia

### 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** 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	Moscow	4	NULL	NULL
NULL	NULL	NULL	3	Russia

### CROSS JOIN

**CROSS JOIN** returns all possible combinations of rows from both tables. There are two synonyms 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	2	2	Germany
2	Berlin	1	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	country_id	name	id
1	1	Paris	1	Paris	1
2	1	Berlin	1	Berlin	1
3	2	Moscow	2	Moscow	2
4	2	Moscow	2	Moscow	2

**NATURAL JOIN** is used these columns to match rows: **city\_id**, **city\_name**, **country\_id**, **country\_name**. **NATURAL JOIN** is very rarely used in practice.

# Advanced Pl Sql Quick Guide

**Thomas Griffiths**



## **Advanced PL SQL Quick Guide:**

*Advanced Oracle PL/SQL* Steven Feuerstein, 1996 This book expands on the techniques provided in Oracle PL SQL Programming taking readers deep into the world of PL SQL packages The book provides much more than advice and examples It comes with a disk containing a full use shareware version of PL Vision a library of dozens of packages written by the author These packages greatly accelerate the development of PL SQL based applications [Oracle PL/SQL Best Practices](#) Steven Feuerstein, 2001-04-09 In this book Steven Feuerstein widely recognized as one of the world's experts on the Oracle PL SQL language distills his many years of programming writing and teaching about PL SQL into a set of PL SQL language best practices rules for writing code that is readable maintainable and efficient Too often developers focus on simply writing programs that run without errors and ignore the impact of poorly written code upon both system performance and their ability and their colleagues ability to maintain that code over time Oracle PL SQL Best Practices is a concise easy to use reference to Feuerstein's recommendations for excellent PL SQL coding It answers the kinds of questions PL SQL developers most frequently ask about their code How should I format my code What naming conventions if any should I use How can I write my packages so they can be more easily maintained What is the most efficient way to query information from the database How can I get all the developers on my team to handle errors the same way The book contains 120 best practices divided by topic area It's full of advice on the program development process coding style writing SQL in PL SQL data structures control structures exception handling program and package construction and built in packages It also contains a handy pull out quick reference card As a helpful supplement to the text code examples demonstrating each of the best practices are available on the O Reilly web site Oracle PL SQL Best Practices is intended as a companion to O Reilly's larger Oracle PL SQL books It's a compact readable reference that you'll turn to again and again a book that no serious developer can afford to be without [Oracle8i Advanced PL/SQL Programming](#) Scott Urman, 2000 Experienced system administrators database administrators and application designers will find hands on information needed to use PL SQL to its fullest potential Special elements include Oracle8i coverage explanations on how to use examples for real world applications and a CD ROM containing the script samples covered as well as Oracle and third part tools such as Oracle Procedure Builder and SQL Station **XLIB Programming Manual, Rel. 5** Adrian Nye, 1992 Covering X11 Release 5 the Xlib Programming Manual is a complete guide to programming the X library Xlib the lowest level of programming interface to X It includes introductions to internationalization device independent color font service and scalable fonts Includes chapters on X Window System concepts A simple client application Window attributes The graphics context Graphics in practice Color Events Interclient communication Internationalization The Resource Manager A complete client application Window management This manual is a companion to Volume 2 Xlib Reference Manual **Lotus Domino Administration in a Nutshell** Greg Neilson, 2000 Whether you're looking to change messaging servers modify your administration tasks to a simpler and more

efficient level or ensure the security and flexibility of your web application server Lotus Domino Administration in a Nutshell will give you the everyday help you need to make the most of this reliable and scalable integrated server platform Jacket

Advanced Perl Programming Sriram Srinivasan,1997 Covers advanced features of Perl how the Perl interpreter works and presents areas of modern computing technology such as networking user interfaces persistence and code generation

*Oracle PL/SQL Language Pocket Reference* Steven Feuerstein,Bill Pribyl,Chip Dawes,2004-04-06 Provides quick reference information that will help you use Oracle s PL SQL language including the newest Oracle Database 10g features This is a companion to Steven Feuerstein and Bill Pribyl s Oracle PL SQL Programming **Oracle PL/SQL Best Practices** Steven Feuerstein,2001 In this book Steven Feuerstein widely recognized as one of the world s experts on the Oracle PL SQL language distills his many years of programming writing and teaching about PL SQL into a set of PL SQL language best practices rules for writing code that is readable maintainable and efficient Too often developers focus on simply writing programs that run without errors and ignore the impact of poorly written code upon both system performance and their ability and their colleagues ability to maintain that code over time Oracle PL SQL Best Practices is a concise easy to use reference to Feuerstein s recommendations for excellent PL SQL coding It answers the kinds of questions PL SQL developers most frequently ask about their code How should I format my code What naming conventions if any should I use How can I write my packages so they can be more easily maintained What is the most efficient way to query information from the database How can I get all the developers on my team to handle errors the same way The book contains 120 best practices divided by topic area It s full of advice on the program development process coding style writing SQL in PL SQL data structures control structures exception handling program and package construction and built in packages It also contains a handy pull out quick reference card As a helpful supplement to the text code examples demonstrating each of the best practices are available on the O Reilly web site Oracle PL SQL Best Practices is intended as a companion to O Reilly s larger Oracle PL SQL books It s a compact readable reference that you ll turn to again and again a book that no serious developer can afford to be without **Oracle PL/SQL Programming** Steven Feuerstein,Bill Pribyl,2005-08-22 For the past ten years O Reilly s Oracle PL SQL Programming has been the bestselling book on PL SQL Oracle s powerful procedural language Packed with examples and helpful recommendations the book has helped everyone from novices to experienced developers and from Oracle Forms developers to database administrators make the most of PL SQL The fourth edition is a comprehensive update adding significant new content and extending coverage to include the very latest Oracle version Oracle Database 10g Release 2 It describes such new features as the PL SQL optimizing compiler conditional compilation compile time warnings regular expressions set operators for nested tables nonsequential collections in FORALL the programmer defined quoting mechanism the ability to backtrace an exception to a line number a variety of new built in packages and support for IEEE 754 compliant floating point numbers The new edition adds brand new chapters on security

including encryption row level security fine grained auditing and application contexts file email and web I O including the built in packages DBMS\_OUTPUT UTL\_FILE UTL\_MAIL UTL\_SMTP and UTL\_HTTP and globalization and localization Co authored by the world s foremost PL SQL authority Steven Feuerstein this classic reference provides language syntax best practices and extensive code ranging from simple examples to complete applications making it a must have on your road to PL SQL mastery A companion web site contains many more examples and additional technical content for enhanced learning

**C++** Gregory Satir,Doug Brown,1995 A primer for C programmers transitioning to C and designed to get users up to speed quickly this book tells users just what they need to learn first Covering a subset of the features of C the user can actually use this subset to get familiar with the basics of the language The book includes sidebars that give overviews of advanced features not covered UML in a Nutshell Sinan Si Alhir,1998 The Unified Modeling Language UML for the first time in the history of systems engineering gives practitioners a common language This concise quick reference explains how to use each component of the language including its extension mechanisms and the Object Constraint Language OCL

**Advanced Oracle PL-SQL** ,1996 *Linux Network Administrator's Guide* Olaf Kirch,Terry Dawson,2000 This introduction to networking on Linux now covers firewalls including the use of ipchains and Netfilter masquerading and accounting Other new topics in this second edition include Novell NCP IPX support and INN news administration XML in a Nutshell Elliotte Rusty Harold,W. Scott Means,2001 Introduces the basic rules of XML syntax for document markup the details of document type definition DTD creation and the APIs used to read and write XML documents in a variety of programming languages A series of quick reference chapters lists syntax rules for XPath XSLT SAX and DOM c Book News Inc **Oracle9i PL/SQL Programming** Scott Urman,2002 From the authorized Oracle Press comes a complete guide to developing robust PL SQL applications The book contains new information on development tools datatypes SQL commands and functions and much more The CD ROM contains sample code plus a sampling of development environments covered in the book **The Unofficial Guide to Lego Mindstorms Robots** Jonathan Knudsen,1999 The LEGO MINDSTORMS Robotics Invention System is a wildly popular kit for building mobile robots Get the most out of the kit for hands on robot projects featuring descriptions of advanced mechanical techniques programming with third party software building sensors working with more than one kits and sources of extra parts *Endless Referrals* Bob Burg,2002 Bestselling author Bob Burg s winning strategies have helped thousands of professionals and entrepreneurs to successfully network Updated with all new information this book contains diverse business opportunities including the essential rules of networking etiquette **Be Developer's Guide** Be Development Team,1997 The Be Developer s Guide and Be Advanced Topics are the official programmer s reference manuals for the BeOS a revolutionary new operating system built around multimedia threading and multiprocessing Be Developer s Guide includes the BeOS on CD ROM Be Advanced Topics includes the Be Specific CD ROM from Adamation containing a variety of tools applications and freeware designed specifically for the Be platform *AOL in a*

*Nutshell* Curt Degenhart, Jen Muehlbauer, 1998 This definitive reference breaks through the hype and shows advanced America Online users and sophisticated beginners how to get the most out of AOL s tools and features Readers will learn how to customize AOL so it works the way they want it to work around annoying idiosyncrasies avoid unwanted email and Instant Messages and turn off intrusive advertisements

[LEGO Spybotics Secret Agent Training Manual](#) Ralph Hempel, 2002-11-22

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### **Table of Contents Advanced Pl Sql Quick Guide**

1. Understanding the eBook Advanced Pl Sql Quick Guide
  - The Rise of Digital Reading Advanced Pl Sql Quick Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Pl Sql Quick Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Advanced Pl Sql Quick Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Pl Sql Quick Guide
  - Personalized Recommendations

- Advanced Pl Sql Quick Guide User Reviews and Ratings
- Advanced Pl Sql Quick Guide and Bestseller Lists
- 5. Accessing Advanced Pl Sql Quick Guide Free and Paid eBooks
  - Advanced Pl Sql Quick Guide Public Domain eBooks
  - Advanced Pl Sql Quick Guide eBook Subscription Services
  - Advanced Pl Sql Quick Guide Budget-Friendly Options
- 6. Navigating Advanced Pl Sql Quick Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Advanced Pl Sql Quick Guide Compatibility with Devices
  - Advanced Pl Sql Quick Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Advanced Pl Sql Quick Guide
  - Highlighting and Note-Taking Advanced Pl Sql Quick Guide
  - Interactive Elements Advanced Pl Sql Quick Guide
- 8. Staying Engaged with Advanced Pl Sql Quick Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Advanced Pl Sql Quick Guide
- 9. Balancing eBooks and Physical Books Advanced Pl Sql Quick Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Advanced Pl Sql Quick Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Advanced Pl Sql Quick Guide
  - Setting Reading Goals Advanced Pl Sql Quick Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advanced Pl Sql Quick Guide
  - Fact-Checking eBook Content of Advanced Pl Sql Quick Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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