

SQL Basics Cheat Sheet

AGGREGATION AND GROUPING

GROUP BY groups together rows that have the same values in specified columns. It computes summaries (aggregated) for each unique combination of values.

CITY			CITY		
id	name	country_id	country_id	name	country_id
1	Paris	FR	FR	Paris	FR
101	Munich	DE	DE	Munich	DE
102	Lyons	FR	DE	Lyons	DE
2	Berlin	DE	FR	Berlin	FR
103	Nuremberg	DE	FR	Nuremberg	FR
104	Munich	DE	FR	Munich	FR
3	New York	US	US	New York	US
105	Chicago	US	US	Chicago	US

AGGREGATE FUNCTIONS

- avg(expr)** - average value for rows within the group
- count(expr)** - count of values for rows within the group
- max(expr)** - maximum value within the group
- min(expr)** - minimum value within the group
- sum(expr)** - sum of values within the group

EXAMPLE QUERIES

Find out the number of cities

```
SELECT COUNT(*)  
FROM city;
```

Find out the number of cities with more than 10 ratings

```
SELECT COUNT(*) rating  
FROM city;
```

Find out the number of distinct country values

```
SELECT COUNT(DISTINCT country_id)  
FROM city;
```

Find out the smallest and the greatest country populations

```
SELECT MIN(population), MAX(population)  
FROM country;
```

Find out the total population of cities in respective countries

```
SELECT country_id, SUM(population)  
FROM city  
GROUP BY country_id;
```

Find out the average rating for cities in respective countries if the average is above 3.0

```
SELECT country_id, AVG(rating)  
FROM city  
GROUP BY country_id  
HAVING AVG(rating) > 3.0;
```

SUBQUERIES

A subquery is a query that is nested inside another query, or inside another subquery. There are different types of subqueries.

SINGLE VALUE

The simplest subquery returns exactly one column and exactly one row. It can be used with comparison operators $<$, $>$, $=$, $>=$, $<=$, or $<>$.

This query finds cities with the same rating as Paris

```
SELECT name FROM city  
WHERE rating = (  
    SELECT rating  
    FROM city  
    WHERE name = 'Paris')  
;
```

MULTIPLE VALUES

A subquery can also return multiple columns or multiple rows. Such subqueries can be used with operators IN, EXISTS, ALL, or ANY.

This query finds cities in countries that have a population above 10M

```
SELECT name  
FROM city  
WHERE country_id IN (  
    SELECT country_id  
    FROM country  
    WHERE population > 10000000)  
;
```

CORRELATED

A correlated subquery refers to the tables introduced in the outer query. A correlated subquery depends on the outer query. It cannot be run independently from the outer query.

This query finds cities with a population greater than the average population in the country

```
SELECT *  
FROM city c1, city  
WHERE population > (  
    SELECT AVG(population)  
    FROM city average_city  
    WHERE average_city.country_id = c1.country_id)  
;
```

This query finds countries that have at least one city

```
SELECT name  
FROM country  
WHERE EXISTS (  
    SELECT *  
    FROM city  
    WHERE country_id = country_id)  
;
```

SET OPERATIONS

Set operations are used to combine the results of two or more queries into a single result. The combined queries must return the same number of columns and compatible data types. The names of the corresponding columns can be different.

CITY			CITY		
id	name	country_id	id	name	country_id
1	Paris	FR	1	Paris	FR
2	Lyons	FR	2	Lyons	FR
3	New York	US	3	New York	US

UNION

UNION combines the results of two result sets and removes duplicates. UNION ALL doesn't remove duplicate rows.

This query displays German cyclists together with German skaters

```
SELECT name  
FROM cycling  
WHERE country = 'DE'  
UNION / UNION ALL  
SELECT name  
FROM skating  
WHERE country = 'DE';
```



INTERSECT

INTERSECT returns only rows that appear in both result sets.

This query displays German cyclists who are also German skaters at the same time

```
SELECT name  
FROM cycling  
WHERE country = 'DE'  
INTERSECT  
SELECT name  
FROM skating  
WHERE country = 'DE';
```



EXCEPT

EXCEPT returns only the rows that appear in the first result set but do not appear in the second result set.

This query displays German cyclists unless they are also German skaters at the same time

```
SELECT name  
FROM cycling  
WHERE country = 'DE'  
EXCEPT / MINUS  
SELECT name  
FROM skating  
WHERE country = 'DE';
```



Sql Basics Pocket Guide

Paul Gibbons



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Table of Contents Sql Basics Pocket Guide

1. Understanding the eBook Sql Basics Pocket Guide
 - The Rise of Digital Reading Sql Basics Pocket Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Sql Basics Pocket 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 Sql Basics Pocket Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sql Basics Pocket Guide
 - Personalized Recommendations

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