SQL Cheat Sheet



Querying Data in SQL	Filtering Data in SQL	SQL Operator
SELECT	WHERE	AND
Retrieve Data From One Or More Tables	Filter Rows Based On Specified Conditions	Combines Multiple Conditions In A WHE Clause
SELECT * FROM employees;	<pre>SELECT * FROM employees WHERE department = 'IT';</pre>	<pre>SELECT * FROM employees WHERE department = 'IT' AND salary > 60000;</pre>
DISTINCT Select Unique Values From A Column	LIKE Match A Pattern In A Column	OR Specifies Multiple Conditions Where Any
SELECT DISTINCT department FROM employees;	<pre>SELECT * FROM employees WHERE first_name LIKE 'J%';</pre>	Of Them Should Be True SELECT * FROM employees WHERE department = 'HR' OR department 'Finance';
WHERE	IN	NOT
Filter Rows Based On Specified Conditions	Match Any Value In A List	Negates A Condition

LIMIT

Limit The Number Of Rows Returned In The Result Set

BETWEEN

Match Values Within A Specified Range

SELECT * FROM employees WHERE

salary BETWEEN 50000 AND 60000;

ORDER BY

Sorts the Result Set in Ascending or Descending Order

SELECT * FROM employees LIMIT 3;

FETCH

Retrieve A Specified Number Of Rows From The Result Set

SELECT * FROM employees FETCH FIRST 3 ROWS ONLY;

Aggregation Data in SQL

Count The Number Of Rows In A Result Set

SELECT COUNT(*) FROM employees;

IS NULL

Match NULL Values

SELECT * FROM employees WHERE department IS NULL;

Joins in SQL

INNER JOIN

Retrieves Records That Have Matching Values in Both Tables

SELECT * FROM employees INNER JOIN
departments ON
employees.department_id =
departments.department_id;

SUM

COUNT

Calculate The Sum Of Values In A Column

SELECT SUM(salary) FROM employees;

LEFT JOIN

Retrieves All Records from the Left Table and the Matched Records from the Right Table

SELECT * FROM employees LEFT JOIN
departments ON
employees.department_id =
departments.department_id;

RIGHT JOIN

Retrieves All Records from the Right Table

SELECT * FROM employees ORDER BY
salary DESC;

GROUP BY

Groups Rows that have the Same Values into Summary Rows

SELECT department, COUNT(*) AS
employee_count FROM employees GROUP
BY department;

Indexes & Transactions in SQL

CREATE INDEX

Create an Index on a Table

CREATE INDEX idx_department ON
employees (department);

DROP INDEX

Remove an Index

DROP INDEX IF EXISTS
idx_department;

BEGIN TRANSACTION

Start a New Transaction

AVG

Calculate The Average Value Of A Column

	and the Matched Records from the Left Table	
SELECT AVG(salary) FROM employees;		BEGIN TRANSACTION;
	SELECT * FROM employees RIGHT JOIN departments ON	
	<pre>employees.department_id =</pre>	
	<pre>departments.department_id;</pre>	
MIN	FULL OUTER JOIN	COMMIT
Find the Minimum Value in a Column	Retrieves All Records When There Is a Match	Save Changes Made During the Current
<pre>SELECT MIN(salary) FROM employees;</pre>	in Either the Left or Right Table	Transaction
Stelet Min(salary) Thom employees,	SELECT * FROM employees FULL OUTER	COMMIT;
	JOIN departments ON	
	<pre>employees.department_id = departments_ide</pre>	
	<pre>departments.department_id;</pre>	
MAX	CROSS JOIN	ROLLBACK
Find the Maximum Value in a Column	Retrieves the Cartesian Product of the Two	Undo Changes Made During the Current
	Tables	Transaction
SELECT MAX(salary) FROM employees;	SELECT * FROM employees CROSS JOIN	ROLLBACK;
	departments;	

To Learn More Commands, You can read this article <u>here</u>.