## **SQL Commands Cheat Sheet**

## 1. SELECT Used to select data from a database. Example: SELECT \* FROM Employees; 2. WHERE Filters records. Example: SELECT \* FROM Employees WHERE department = 'HR'; 3. ORDER BY Sorts result in ascending or descending order. Example: SELECT \* FROM Employees ORDER BY salary DESC; 4. GROUP BY Groups rows sharing a property. Example: SELECT department, COUNT(\*) FROM Employees GROUP BY department; 5. HAVING Filters groups after GROUP BY. Example: SELECT department, COUNT(\*) FROM Employees GROUP BY department HAVING COUNT(\*) > 5; 6. LIMIT

Limits number of results returned.

Example:

SELECT \* FROM Employees LIMIT 5; 7. DISTINCT Returns only distinct values. Example: SELECT DISTINCT job\_title FROM Employees; 8. JOINS Combines rows from two or more tables based on related columns. - INNER JOIN: Only matching rows - LEFT JOIN: All from left + matched from right - RIGHT JOIN: All from right + matched from left - FULL OUTER JOIN: All rows from both sides 9. SUBQUERIES A query inside another query. Example: SELECT name FROM Employees WHERE salary > (SELECT AVG(salary) FROM Employees); **10. CASE** Conditional logic. Example: SELECT name, CASE WHEN salary > 10000 THEN 'High' ELSE 'Low' END FROM Employees; 11. IN / NOT IN

Checks for values in a list.

Example:

SELECT name FROM Employees WHERE department IN ('HR', 'Sales');

## 12. BETWEEN

Filters in a range.

Example:
SELECT * FROM Employees WHERE salary BETWEEN 5000 AND 10000;
13. LIKE
Pattern matching.
Example:
SELECT * FROM Employees WHERE name LIKE 'A%';
14. IS NULL / IS NOT NULL
Checks for null values.
Example:
SELECT * FROM Employees WHERE manager_id IS NULL;
15. ALIAS (AS)
Temporary names for columns or tables.
Example:
SELECT name AS employee_name FROM Employees;
16. INSERT INTO
Adds new data.
Example:
INSERT INTO Employees (name, salary) VALUES ('John', 50000);
17. UPDATE
Modifies existing data.
Example:
UPDATE Employees SET salary = 60000 WHERE id = 1;
18. DELETE
Deletes records.
Example:

DELETE FROM Employees WHERE salary < 30000; 19. CREATE TABLE Creates a new table. Example: CREATE TABLE Students (id INT, name VARCHAR(100)); **20. DROP TABLE** Deletes a table. Example: **DROP TABLE Students**; 21. ALTER TABLE Modifies table structure. Example: ALTER TABLE Students ADD age INT; 22. UNION / UNION ALL Combines results of two SELECTs. Example: SELECT name FROM A UNION SELECT name FROM B;