

SQL Cheat Sheet for Beginners

1. Basics

```
SELECT column1, column2 FROM table_name;
```

```
SELECT * FROM table_name;
```

2. Filtering Data

```
SELECT * FROM table_name WHERE condition;
```

```
SELECT * FROM users WHERE age > 18;
```

```
SELECT * FROM users WHERE name LIKE 'A%';
```

3. Sorting Data

```
SELECT * FROM users ORDER BY age ASC;
```

```
SELECT * FROM users ORDER BY name DESC;
```

4. Inserting Data

```
INSERT INTO table_name (column1, column2) VALUES (value1, value2);
```

```
INSERT INTO users (name, age) VALUES ('Alice', 25);
```

5. Updating Data

UPDATE table_name SET column1 = value1 WHERE condition;

UPDATE users SET age = 30 WHERE name = 'Alice';

6. Deleting Data

DELETE FROM table_name WHERE condition;

DELETE FROM users WHERE age < 18;

7. Table Operations

```
CREATE TABLE users (  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(100),  
    age INT  
);
```

DROP TABLE users;

8. Aggregate Functions

SELECT COUNT(*) FROM users;

SELECT AVG(age) FROM users;

SELECT MAX(age), MIN(age) FROM users;

9. Grouping & Filtering

SELECT age, COUNT(*) FROM users GROUP BY age;

```
SELECT age, COUNT(*) FROM users GROUP BY age HAVING COUNT(*) > 1;
```

10. Joining Tables

```
SELECT a.name, b.salary  
FROM employees a  
JOIN payroll b ON a.id = b.emp_id;
```

11. Creating Users and Granting Privileges (MySQL Specific)

```
CREATE USER 'newuser'@'localhost' IDENTIFIED BY 'password';  
GRANT SELECT, INSERT ON database.* TO 'newuser'@'localhost';  
FLUSH PRIVILEGES;
```