

## SQL / PostgreSQL Common Keywords Cheat Sheet

### SELECT

Retrieve data.

Example:

```
SELECT name, age FROM users;
```

### FROM

Specify table.

Example:

```
SELECT * FROM orders;
```

### WHERE

Filter rows.

Example:

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

### AND / OR / NOT

Boolean operators.

Example:

```
SELECT * FROM products WHERE category = 'A' AND stock > 0;
```

### LIKE / ILIKE

Pattern match.

Example:

```
SELECT * FROM users WHERE name ILIKE 'j%';
```

### GROUP BY

Group rows for aggregation.

Example:

```
SELECT city, COUNT(*) FROM users GROUP BY city;
```

### HAVING

Filter groups.

Example:

```
SELECT city, COUNT(*) FROM users GROUP BY city HAVING COUNT(*) > 10;
```

**ORDER BY**

Sort results.

Example:

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

**LIMIT / OFFSET**

Pagination.

Example:

```
SELECT * FROM users ORDER BY id LIMIT 10 OFFSET 20;
```

**JOIN (INNER, LEFT, RIGHT, FULL)**

Example:

```
SELECT * FROM users u INNER JOIN orders o ON u.id = o.user_id;
```

**INSERT INTO**

Example:

```
INSERT INTO users (name, email) VALUES ('John', 'john@example.com');
```

**UPDATE**

Example:

```
UPDATE users SET active = true WHERE id = 5;
```

**DELETE**

Example:

```
DELETE FROM users WHERE id = 3;
```

**CREATE TABLE**

Example:

```
CREATE TABLE users (id SERIAL PRIMARY KEY, name TEXT);
```

**ALTER TABLE**

Example:

```
ALTER TABLE users ADD COLUMN age INT;
```

**DROP TABLE**

Example:

DROP TABLE users;

PRIMARY KEY / FOREIGN KEY / UNIQUE / CHECK

Example:

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE;

BEGIN / COMMIT / ROLLBACK

Example:

BEGIN; UPDATE ...; COMMIT;

WITH (CTE)

Example:

WITH x AS (SELECT \* FROM users) SELECT \* FROM x;

CAST

Example:

SELECT '123'::INT;

WINDOW FUNCTIONS

Example:

SELECT id, SUM(salary) OVER () FROM employees;