# Full Notes: Conditions + SELECT + CASE in MySQL

### Step 1: Table Create karo — employees

CREATE TABLE employees (

id INT PRIMARY KEY,

name VARCHAR(50),

department VARCHAR(50),

salary INT,

city VARCHAR(50)

);

### Step 2: Data Insert karo

INSERT INTO employees (id, name, department, salary, city) VALUES

(1, 'Rahul', 'IT', 60000, 'Delhi'),

(2, 'Priya', 'HR', 45000, 'Mumbai'),

(3, 'Aman', 'Finance', 72000, 'Delhi'),

(4, 'Neha', 'IT', 50000, 'Pune'),

(5, 'Ravi', 'HR', 30000, 'Chennai');

### Step 3: Basic SELECT + WHERE + AND + OR Conditions

**Example 1: WHERE with AND**

SELECT name, department, salary, city

FROM employees

WHERE department = 'IT' AND city = 'Delhi';

**Output:**

| **name** | **department** | **salary** | **city** |
| --- | --- | --- | --- |
| Rahul | IT | 60000 | Delhi |

**Example 2: WHERE with OR**

SELECT name, department, salary, city

FROM employees

WHERE city = 'Mumbai' OR city = 'Pune';

**Output:**

| **name** | **department** | **salary** | **city** |
| --- | --- | --- | --- |
| Priya | HR | 45000 | Mumbai |
| Neha | IT | 50000 | Pune |

**Example 3: Complex WHERE with AND + OR**

SELECT name, department, salary, city

FROM employees

WHERE (department = 'HR' AND salary > 40000) OR city = 'Pune';

**Output:**

| **name** | **department** | **salary** | **city** |
| --- | --- | --- | --- |
| Priya | HR | 45000 | Mumbai |
| Neha | IT | 50000 | Pune |

### Step 4: SELECT + CASE — Salary Status

SELECT name, salary,

CASE

WHEN salary >= 70000 THEN 'High Salary'

WHEN salary >= 50000 THEN 'Medium Salary'

ELSE 'Low Salary'

END AS salary\_status

FROM employees;

**Output:**

| **name** | **salary** | **salary\_status** |
| --- | --- | --- |
| Rahul | 60000 | Medium Salary |
| Priya | 45000 | Low Salary |
| Aman | 72000 | High Salary |
| Neha | 50000 | Medium Salary |
| Ravi | 30000 | Low Salary |

### Step 5: SELECT + CASE + WHERE + AND + OR Together

**Example: Salary status for only IT or HR employees living in Delhi or Mumbai**

SELECT name, department, city, salary,

CASE

WHEN salary >= 70000 THEN 'High Salary'

WHEN salary >= 50000 THEN 'Medium Salary'

ELSE 'Low Salary'

END AS salary\_status

FROM employees

WHERE (department = 'IT' OR department = 'HR')

AND (city = 'Delhi' OR city = 'Mumbai');

**Output:**

| **name** | **department** | **city** | **salary** | **salary\_status** |
| --- | --- | --- | --- | --- |
| Rahul | IT | Delhi | 60000 | Medium Salary |
| Priya | HR | Mumbai | 45000 | Low Salary |

### Summary Table: SQL Conditions + CASE

| **Clause** | **Use Case** | **Example** |
| --- | --- | --- |
| WHERE | Filter rows based on condition | WHERE salary > 50000 |
| AND | Multiple conditions true simultaneously | WHERE city='Delhi' AND department='IT' |
| OR | Either condition true | WHERE city='Mumbai' OR city='Pune' |
| CASE | Create conditional columns | CASE WHEN salary>70000 THEN 'High' ELSE 'Low' END |