DAY 2 – SQL Filtering & Conditions

1. WHERE Clause

The WHERE clause filters rows based on a condition.

Example:

SELECT * FROM patients WHERE age > 50;

2. Logical Operators — AND, OR, NOT

AND example:

SELECT * FROM patients WHERE gender = 'M' AND age > 40;

OR example:

SELECT * FROM patients WHERE disease = 'Fever' OR disease = 'Cold';

NOT example:

SELECT * FROM patients WHERE NOT is_discharged;

3. Comparison Operators

=, !=, >, <, >=, <=, BETWEEN, IN

Example:

SELECT * FROM patients WHERE age BETWEEN 30 AND 60;

SELECT * FROM patients WHERE disease IN ('Cold', 'Fever', 'Dengue');

4. LIKE Operator – Pattern Matching

Patterns: 'A%', '%a', '%a%', 'a___', 'a___%'

Example:

SELECT * FROM patients WHERE name LIKE 'A%';

5. Practice Queries

```sql
SELECT * FROM patients WHERE age > 50;

SELECT * FROM patients WHERE gender = 'F';

SELECT * FROM patients WHERE disease LIKE '%e%';
```

6. Mini Project – Appointments Table

```sql
CREATE TABLE appointments(

patients_name VARCHAR(30),

patient_id INT,

age INT,

doctor_name VARCHAR(30),

appointment_date DATE,

appointment_fee INT

);

INSERT INTO appointments VALUES

('Radha', 11, 23, 'Saguna', '2025-02-25', 500),

('Rahul', 22, 34, 'Smithi', '2025-01-10', 300),

('Rohan', 33, 45, 'Dr. Sharma', '2024-09-24', 600);
```

Queries:

```sql
SELECT * FROM appointments WHERE appointment_fee > 500;

SELECT * FROM appointments WHERE doctor_name = 'Dr. Sharma';

SELECT * FROM appointments WHERE appointment_date BETWEEN '2025-01-07' AND
'2025-01-12';
```

DAY 2 Completed Successfully!