# SQL Commands for the Performance Table

-- Step 1: Create the Performance table

CREATE TABLE Performance (

Name VARCHAR(50),

Score INT,

IsPassed BOOLEAN,

Percentage DECIMAL(5,2)

);

-- Step 2: Insert 10 sample records

INSERT INTO Performance (Name, Score, IsPassed, Percentage) VALUES

('Aarav Mehta', 85, TRUE, 85.00),

('Isha Kapoor', 72, TRUE, 72.00),

('Rohan Singh', 48, FALSE, 48.00),

('Neha Verma', 91, TRUE, 91.00),

('Kunal Joshi', 66, TRUE, 66.00),

('Priya Sharma', 59, FALSE, 59.00),

('Aditya Rao', 77, TRUE, 77.00),

('Sneha Das', 34, FALSE, 34.00),

('Manav Patel', 88, TRUE, 88.00),

('Tanya Jain', 95, TRUE, 95.00);

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## 🔹 Basic SQL Commands

### View all records

SELECT \* FROM Performance;

### View specific columns

SELECT Name, Score FROM Performance;

### Filter records where `IsPassed` is `FALSE`

SELECT \* FROM Performance WHERE IsPassed = FALSE;

### Filter records where `Score` is greater than 60

SELECT \* FROM Performance WHERE Score > 60;

SELECT DISTINCT  IsPassed, FROM performance

### Sort records by `Score` in descending order

SELECT \* FROM Performance ORDER BY Score DESC;

### Sort records by `Score` in descending order

SELECT \* FROM Performance ORDER BY Score ASC;

### Count the number of records

SELECT COUNT(\*) FROM Performance;

### Find the highest score

SELECT MAX(Score) FROM Performance;

### Find the lowest score

SELECT MIN(Score) FROM Performance;

### Update a record (changing score of Ashi)

UPDATE Performance SET Score = 95.00 WHERE Name = 'Ashi';

### Delete a specific record (removing Sana)

DELETE FROM Performance WHERE Name = 'Sana';

## 🔹 Advanced SQL Commands

### Find the average score of all students

SELECT AVG(Score) FROM Performance;

### Count students who passed (`IsPassed = TRUE`)

SELECT COUNT(\*) FROM Performance WHERE IsPassed = TRUE;

### Group by pass/fail status and count students in each category

SELECT IsPassed, COUNT(\*) FROM Performance GROUP BY IsPassed;

### Find students who scored between 50 and 80

SELECT \* FROM Performance WHERE Score BETWEEN 50 AND 80;

### Find students whose names start with 'A'

SELECT \* FROM Performance WHERE Name LIKE 'A%';

### Find students who failed and sort them by score (lowest first)

SELECT \* FROM Performance WHERE IsPassed = FALSE ORDER BY Score ASC;

### Add a new column for remarks

ALTER TABLE Performance ADD COLUMN Remarks VARCHAR(255);

### Update remarks based on performance

UPDATE Performance SET Remarks = 'Excellent' WHERE Score > 90;

### Delete all records but keep table structure

DELETE FROM Performance;

**Sorting table**

SELECT column1, column2, ...

FROM table\_name

ORDER BY column\_name ASC;

### Drop the table (permanently delete it)

DROP TABLE Performance;

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