

Experiment -20

Table student

RollNo	Name	Class	Section	Marks	City
101	Amit	12	A	89	Delhi
102	Neha	12	B	76	Kolkata
103	Rohit	12	A	92	Mumbai
104	Sana	12	C	58	Delhi
105	Karan	12	B	67	Chennai
106	Riya	12	A	81	Delhi
107	Tina	12	C	73	Kolkata

Create table command

Table Creation Command

```
CREATE TABLE STUDENT (  
  RollNo INT PRIMARY KEY,  
  Name VARCHAR(30),  
  Class INT,  
  Section CHAR(1),  
  Marks INT,  
  City VARCHAR(20)  
);
```

SQL Queries with Commands and Outputs

1. Display all records

Command: SELECT * FROM STUDENT;

RollNo	Name	Class	Section	Marks	City
101	Amit	12	A	89	Delhi
102	Neha	12	B	76	Kolkata
103	Rohit	12	A	92	Mumbai
104	Sana	12	C	58	Delhi
105	Karan	12	B	67	Chennai
106	Riya	12	A	81	Delhi
107	Tina	12	C	73	Kolkata

2. Display Name and Marks

Command: SELECT Name, Marks FROM STUDENT;

Name	Marks
Amit	89
Neha	76
Rohit	92
Sana	58
Karan	67
Riya	81
Tina	73

3. Students with Marks > 80

Command: SELECT * FROM STUDENT WHERE Marks > 80;

RollNo	Name	Class	Section	Marks	City
101	Amit	12	A	89	Delhi
103	Rohit	12	A	92	Mumbai

106	Riya	12	A	81	Delhi
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4. Students from Delhi

Command: SELECT Name, City FROM STUDENT WHERE City='Delhi';

Name	City
Amit	Delhi
Sana	Delhi
Riya	Delhi

5. Students of Section A

Command: SELECT Name, Marks FROM STUDENT WHERE Section='A';

Name	Marks
Amit	89
Rohit	92
Riya	81

6. Marks between 70 and 90

Command: SELECT * FROM STUDENT WHERE Marks BETWEEN 70 AND 90;

RollNo	Name	Marks
101	Amit	89
102	Neha	76
106	Riya	81
107	Tina	73

7. Names starting with R

Command: SELECT * FROM STUDENT WHERE Name LIKE 'R%';

RollNo	Name	Class	Section	Marks	City
103	Rohit	12	A	92	Mumbai
106	Riya	12	A	81	Delhi

8. City not Kolkata

Command: SELECT Name, City FROM STUDENT WHERE City <> 'Kolkata';

Name	City
Amit	Delhi
Rohit	Mumbai
Sana	Delhi
Karan	Chennai
Riya	Delhi

9. Order by Marks DESC

Command: SELECT * FROM STUDENT ORDER BY Marks DESC;

RollNo	Name	Marks
103	Rohit	92
101	Amit	89
106	Riya	81
102	Neha	76
107	Tina	73
105	Karan	67
104	Sana	58

10. Count students

Command: SELECT COUNT(*) FROM STUDENT;

COUNT(*)

7

11. Maximum Marks

Command: SELECT MAX(Marks) FROM STUDENT;

MAX(Marks)

92

12. Minimum Marks

Command: SELECT MIN(Marks) FROM STUDENT;

MIN(Marks)

58

13. Average Marks

Command: SELECT AVG(Marks) FROM STUDENT;

AVG(Marks)

76.57

14. Sum of Marks in Section B

Command: SELECT SUM(Marks) FROM STUDENT WHERE Section='B';

SUM(Marks)

15. Max Marks Grouped by Section

Command: SELECT Section, MAX(Marks) FROM STUDENT GROUP BY Section;

Section	MAX(Marks)
A	92
B	76
C	73