

### SQL PRACTICE 3

CREATE TABLE students10 (

student\_id INT,

name VARCHAR(50),

course VARCHAR(50),

marks INT,

age INT,

city VARCHAR(50),

scholarship INT

);

INSERT INTO students10 VALUES

(1, 'Ravi', 'Math', 85, 20, 'Chennai', NULL),

(2, 'Priya', 'Science', 92, 21, 'Delhi', 10000),

(3, 'Amit', 'English', 75, 19, 'Mumbai', 5000),

(4, 'Sneha', 'Math', 88, 22, 'Kolkata', NULL),

(5, 'John', 'History', 67, 20, 'Chennai', NULL),

(6, 'Meena', 'Science', 95, 23, 'Delhi', 15000),

(7, 'Karan', 'English', 70, 20, 'Bangalore', 3000),


(8, 'Divya', 'History', 80, 22, 'Mumbai', NULL);


1.Display students with marks between 70 and 90.


QUERY WITH OUTPUT:

```
22 • SELECT *
23 FROM students10
24 WHERE marks BETWEEN 70 AND 90;
```

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 


	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	3	Amit	English	75	19	Mumbai	5000
	4	Sneha	Math	88	22	Kolkata	NULL
	7	Karan	English	70	20	Bangalore	3000
	8	Divya	History	80	22	Mumbai	NULL

## 2.List students aged between 20 and 22.

### QUERY WITH OUTPUT:


```
25 • SELECT *
26 FROM students10
27 WHERE age BETWEEN 20 AND 22;
```

Result Grid




Filter Rows:

Export:



Wrap Cell Content:



	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	2	Priya	Science	92	21	Delhi	10000
	4	Sneha	Math	88	22	Kolkata	NULL
	5	John	History	67	20	Chennai	NULL
	7	Karan	English	70	20	Bangalore	3000
	8	Divya	History	80	22	Mumbai	NULL

## 3.Find students whose name starts with 'P'

### QUERY WITH OUTPUT:

```
28 • SELECT *
29 FROM students10
30 WHERE name LIKE 'P%';
```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	2	Priya	Science	92	21	Delhi	10000





## 4.Find students whose city contains 'ai'.

### QUERY WITH OUTPUT:

```

31 • SELECT *
32 FROM students10
33 WHERE city LIKE '%ai%';

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	3	Amit	English	75	19	Mumbai	5000
	5	John	History	67	20	Chennai	NULL
	8	Divya	History	80	22	Mumbai	NULL





**5.Find names where the second character is 'r'.**

**QUERY WITH OUTPUT:**

```

34 • SELECT *
35 FROM students10
36 WHERE name LIKE '_r%';

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	2	Priya	Science	92	21	Delhi	10000

**6.Show top 3 students with highest marks.**

**QUERY WITH OUTPUT:**

```

37 • SELECT *
38 FROM students10
39 ORDER BY marks DESC
40 LIMIT 3;

```

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:	Fetch rows: <input type="text"/>
student_id	name	course	marks	age	city	scholarship
6	Meena	Science	95	23	Delhi	15000
2	Priya	Science	92	21	Delhi	10000
4	Sneha	Math	88	22	Kolkata	NULL

**7.Show students who have a scholarship.**

**QUERY WITH OUTPUT:**

```

41 • SELECT *
42 FROM students10
43 WHERE scholarship IS NOT NULL;

```

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:	Fetch rows: <input type="text"/>
student_id	name	course	marks	age	city	scholarship
2	Priya	Science	92	21	Delhi	10000
3	Amit	English	75	19	Mumbai	5000
6	Meena	Science	95	23	Delhi	15000
7	Karan	English	70	20	Bangalore	3000

**8.Show students only if there is at least one student from 'Delhi'.**

**QUERY WITH OUTPUT:**

```

44 • SELECT *
45 FROM students10
46 WHERE EXISTS (
47     SELECT 1
48     FROM students10
49     WHERE city = 'Delhi'
50 );

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	2	Priya	Science	92	21	Delhi	10000
	3	Amit	English	75	19	Mumbai	5000
	4	Sneha	Math	88	22	Kolkata	NULL
	5	John	History	67	20	Chennai	NULL
	6	Meena	Science	95	23	Delhi	15000
	7	Karan	English	70	20	Bangalore	3000
	8	Divya	History	80	22	Mumbai	NULL

**9.Show students with marks greater than ANY student in the 'History' course.**

**QUERY WITH OUTPUT:**

```

51 • SELECT *
52 FROM students10
53 WHERE marks > ANY (
54     SELECT marks
55     FROM students10
56     WHERE course = 'History'
57 );

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	2	Priya	Science	92	21	Delhi	10000
	3	Amit	English	75	19	Mumbai	5000
	4	Sneha	Math	88	22	Kolkata	NULL
	6	Meena	Science	95	23	Delhi	15000
	7	Karan	English	70	20	Bangalore	3000
	8	Divya	History	80	22	Mumbai	NULL

**10.Show students with marks greater than ALL students in the 'English' course.**

**QUERY WITH OUTPUT:**

```
58 • SELECT *
59 FROM students10
60 WHERE marks > ALL (
61     SELECT marks
62     FROM students10
63     WHERE course = 'English'
64 );
```




Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	2	Priya	Science	92	21	Delhi	10000
	4	Sneha	Math	88	22	Kolkata	NULL
	6	Meena	Science	95	23	Delhi	15000
	8	Divya	History	80	22	Mumbai	NULL

**11.Show students in 'Math' course AND age > 21.**

**QUERY WITH OUTPUT:**

```
65 • SELECT *
66 FROM students10
67 WHERE course = 'Math' AND age > 21;
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	student_id	name	course	marks	age	city	scholarship
▶	4	Sneha	Math	88	22	Kolkata	NULL



## 12.Show students in 'Science' OR 'English' course.

### QUERY WITH OUTPUT:

```
65 • SELECT *
66 FROM students10
67 WHERE course = 'Math' AND age > 21;
68 • SELECT *
69 FROM students10
70 WHERE course = 'Science' OR course = 'English';
```

Result Grid





Filter Rows:

Export:



Wrap Cell Content:



	student_id	name	course	marks	age	city	scholarship
▶	2	Priya	Science	92	21	Delhi	10000
	3	Amit	English	75	19	Mumbai	5000
	6	Meena	Science	95	23	Delhi	15000
	7	Karan	English	70	20	Bangalore	3000

## 13.Show students NOT from 'Mumbai'

### QUERY WITH OUTPUT:

```
71 • SELECT *
72 FROM students10
73 WHERE city <> 'Mumbai';
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	student_id	name	course	marks	age	city	scholarship
▶	1	Ravi	Math	85	20	Chennai	NULL
	2	Priya	Science	92	21	Delhi	10000
	4	Sneha	Math	88	22	Kolkata	NULL
	5	John	History	67	20	Chennai	NULL
	6	Meena	Science	95	23	Delhi	15000
	7	Karan	English	70	20	Bangalore	3000

#### 14.Show students who don't have a scholarship.

##### QUERY WITH OUTPUT:

```
74 • SELECT *
75 FROM students10
76 WHERE scholarship = 'No';
```



Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

student_id	name	course	marks	age	city	scholarship
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#### 15.Replace NULL scholarship with 0 using IFNULL.

##### QUERY WITH OUTPUT:

```
77 • SELECT name, age, course, marks, city, IFNULL(scholarship, 0) AS scholarship
78 FROM students10;
```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	name	age	course	marks	city	scholarship
▶	Ravi	20	Math	85	Chennai	0
	Priya	21	Science	92	Delhi	10000
	Amit	19	English	75	Mumbai	5000
	Sneha	22	Math	88	Kolkata	0
	John	20	History	67	Chennai	0
	Meena	23	Science	95	Delhi	15000
	Karan	20	English	70	Bangalore	3000
	Divya	22	History	80	Mumbai	0



## 16.Replace NULL scholarship with 0 using COALESCE.

### QUERY WITH OUTPUT:

```
79 • SELECT name, age, course, marks, city, COALESCE(scholarship, 0) AS scholarship
80 FROM students10;
```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	name	age	course	marks	city	scholarship
►	Ravi	20	Math	85	Chennai	0
	Priya	21	Science	92	Delhi	10000
	Amit	19	English	75	Mumbai	5000
	Sneha	22	Math	88	Kolkata	0
	John	20	History	67	Chennai	0
	Meena	23	Science	95	Delhi	15000
	Karan	20	English	70	Bangalore	3000
	Divya	22	History	80	Mumbai	0