

RAMANUJAN COLLEGE

University Of Delhi



Name: AYUSH RANJAN

Course: B.Sc(H) COMPUTER SCIENCE

Subject : D.B.M.S (Practical)

Roll No: 20221462

Student Table

Local Instance 3306 - Warning - not supported

Administration Schemas Query 3

Schemas

RAMANUJAN

- Tables
- Views
- Stored Procedures
- Functions

No object selected

```

1 CREATE DATABASE RAMANUJAN;
2 use RAMANUJAN;
3 CREATE TABLE STUDENT (
4     RollNo INT PRIMARY KEY,
5     StudentName VARCHAR(20),
6     Course VARCHAR(10),
7     DOB DATE
8 );
9
10 INSERT INTO STUDENT (RollNo, StudentName, Course, DOB)
11 VALUES
12 (1, 'Ayush Ranjan', 'CS', '2003-05-15'),
13 (2, 'Prashant', 'BMS', '2004-08-20'),
14 (3, 'Om', 'BVOC', '2003-12-10'),
15 (4, 'Aditya', 'CS', '2004-12-10'),
16 (5, 'Chanchal', 'BMS', '2003-12-10');
17
18 SELECT * FROM STUDENT;
19

```

Result Grid

RollNo	StudentName	Course	DOB
1	Ayush Ranjan	CS	2003-05-15
2	Prashant	BMS	2004-08-20
3	Om	BVOC	2003-12-10
4	Aditya	CS	2004-12-10
5	Chanchal	BMS	2003-12-10
MULL	MULL	MULL	MULL

STUDENT 1

Action Output

Time	Action	Response	Duration / Fetch Time
16:27:23	INSERT INTO STUDENT (RollNo, StudentName, Course, DOB) VALUES (1, 'Ayush Ranjan', 'CS', '2003-05-15'), (2, 'Pras...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0062 sec
16:28:20	SELECT * FROM STUDENT LIMIT 0, 1000	5 row(s) returned	0.0011 sec / 0.00003...

Query Completed

Society Table

Local Instance 3306 - Warning - not supported

Administration Schemas Query 3

Schemas

RAMANUJAN

- Tables
- Views
- Stored Procedures
- Functions

No object selected

```

19
20 CREATE TABLE SOCIETY (
21     SocID CHAR(6) PRIMARY KEY,
22     SocName VARCHAR(20),
23     MentorName VARCHAR(15),
24     TotalSeats INT UNSIGNED
25 );
26 INSERT INTO SOCIETY (SocID, SocName, MentorName, TotalSeats)
27 VALUES
28 ('101', 'Quick Sort', 'Vipin Sir', 50),
29 ('102', 'Ramanugen', 'Arun Sir', 40),
30 ('103', 'GSS', 'Subodh Sir', 30),
31 ('104', 'Ramcom', 'Sahil Sir', 35),
32 ('105', 'YUVA', 'Sheetal Mam', 25);
33
34 SELECT * FROM SOCIETY;
35
36
37
38

```

Result Grid

SocID	SocName	MentorName	TotalSeats
101	Quick Sort	Vipin Sir	50
102	Ramanugen	Arun Sir	40
103	GSS	Subodh Sir	30
104	Ramcom	Sahil Sir	35
105	YUVA	Sheetal Mam	25
MULL	MULL	MULL	MULL

SOCIETY 2

Action Output

Time	Action	Response	Duration / Fetch Time
16:31:05	CREATE TABLE SOCIETY (SocID CHAR(6) PRIMARY KEY, SocName VARCHAR(20), MentorName VARCHAR(15)...)	0 row(s) affected	0.0096 sec
16:34:58	INSERT INTO SOCIETY (SocID, SocName, MentorName, TotalSeats) VALUES ('101', 'Quick Sort', 'Vipin Sir', 50), ('102', 'Ramanugen', 'Arun Sir', 40), ('103', 'GSS', 'Subodh Sir', 30), ('104', 'Ramcom', 'Sahil Sir', 35), ('105', 'YUVA', 'Sheetal Mam', 25)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0032 sec
16:35:22	SELECT * FROM SOCIETY LIMIT 0, 1000	5 row(s) returned	0.00055 sec / 0.0000...

Query Completed

Enrolment Table

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema 'RAMANUJAN' with objects: Tables, Views, Stored Procedures, and Functions. The central pane contains a query window with the following code:

```

36  CREATE TABLE ENROLLMENT (
37      RollNo INT,
38      SID CHAR(6),
39      DateOfEnrollment DATE,
40      FOREIGN KEY (RollNo) REFERENCES STUDENT(RollNo),
41      FOREIGN KEY (SID) REFERENCES SOCIETY(SocID)
42  );
43  INSERT INTO ENROLLMENT (RollNo, SID, DateOfEnrollment)
44  VALUES
45      ('1', '101', '2024-04-23'),
46      ('2', '102', '2024-05-04'),
47      ('3', '103', '2024-06-19'),
48      ('4', '104', '2024-02-22'),
49      ('5', '105', '2024-01-17');
50
51  SELECT * FROM ENROLLMENT;
52
53
54
55

```

The Result Grid shows the following data:

RollNo	SID	DateOfEnrollment
1	101	2024-04-23
2	102	2024-05-04
3	103	2024-06-19
4	104	2024-02-22
5	105	2024-01-17

The Action Output pane shows the execution log:

Action	Time	Response	Duration / Fetch Time
CREATE TABLE ENROLLMENT (RollNo INT, SID CHAR(6), DateOfEnrollment DATE, FOREIGN KEY (RollNo) RE...)	16:40:27	0 rows affected	0.017 sec
INSERT INTO ENROLLMENT (RollNo, SID, DateOfEnrollment) VALUES ('1', '101', '2024-04-23'), ('2', '102', '2024-05-04')	16:43:26	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0035 sec
SELECT * FROM ENROLLMENT LIMIT 0, 1000	16:43:52	5 row(s) returned	0.00069 sec / 0.000...

1.

The screenshot shows the Oracle SQL Developer interface. The central pane contains the following query:

```

253 •  SELECT DISTINCT StudentName
254   FROM STUDENT
255   WHERE RollNo IN (
256       SELECT RollNo
257       FROM ENROLLMENT
258   );
259

```

The Result Grid shows the following data:

StudentName
Ayush Ranjan
Prashant
Om
Aditya
Chanchal

The Action Output pane shows the execution log:

Action	Time	Response	Duration / Fetch Time
SELECT DISTINCT StudentName FROM STUDENT WHERE RollNo IN (SELECT RollNo FROM ENROLLMENT) LIMI...	18:41:00	5 row(s) returned	0.0052 sec / 0.00003...

2.

```
261
262 •   SELECT SocName
263     FROM SOCIETY;
264
100%  ◁  1:249
Result Grid  Filter Rows: Search Export: □ Result Grid
SocName
Quick Sort
Ramanugen
GSS
Ramcom
YUVA
SOCIETY 2
Read Only
Action Output  ◁
Time Action Response Duration / Fetch Time
1 18:42:27 SELECT SocName FROM SOCIETY LIMIT 0, 1000 5 row(s) returned 0.0021 sec / 0.00002...
```

3.

```
265
266
267 •   SELECT StudentName
268     FROM STUDENT
269     WHERE StudentName LIKE 'A%';
270
100%  ◁  28:253
Result Grid  Filter Rows: Search Export: □ Result Grid
StudentName
Ayush Ranjan
Aditya
STUDENT 3
Read Only
Action Output  ◁
Time Action Response Duration / Fetch Time
1 18:43:49 SELECT StudentName FROM STUDENT WHERE StudentName LIKE 'A%' LIMIT 0, 1000 2 row(s) returned 0.0015 sec / 0.00001...
```

4.

The screenshot shows the Oracle SQL Developer interface with a query editor window. The schema 'RAMANUJAN' is selected. The code entered is:

```
44 • INSERT INTO ENROLLMENT (RollNo, SID, DateOfEnrollment)
45   VALUES
46   ('1', '101', '2024-04-23'),
47   ('2', '102', '2024-05-04'),
48   ('3', '103', '2024-06-19'),
49   ('4', '104', '2024-02-22'),
50   ('5', '105', '2024-01-17');
51
52 • SELECT * FROM ENROLLMENT;
53
54 • SELECT *
55   FROM STUDENT
56   WHERE Course IN ('CS', 'BMS');
57
58 • SELECT StudentName
59   FROM STUDENT
60   WHERE (RollNo LIKE 'X%' OR RollNo LIKE 'Z%') AND RollNo LIKE '%9';
61
```

The results grid shows no data. The log pane at the bottom displays the following actions:

Action	Time	Response	Duration / Fetch Time
CREATE TABLE ENROLLMENT (RollNo INT, SID CHAR(6), DateOfEnrollment DATE, FOREIGN KEY (RollNo) RE...	16:40:27	0 row(s) affected	0.017 sec
INSERT INTO ENROLLMENT (RollNo, SID, DateOfEnrollment) VALUES ('1', '101', '2024-04-23'), ('2', '102', '2024-05-04')	16:43:26	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0036 sec
SELECT * FROM ENROLLMENT LIMIT 0, 1000	16:43:52	5 row(s) returned	0.00069 sec / 0.000...
SELECT * FROM STUDENT WHERE Course IN ('CS', 'BMS') LIMIT 0, 1000	16:46:51	4 row(s) returned	0.0028 sec / 0.0001...
SELECT StudentName FROM STUDENT WHERE (RollNo LIKE 'X%' OR RollNo LIKE 'Z%') AND RollNo LIKE '%9' LIMIT...	16:51:21	0 row(s) returned	0.0028 sec / 0.0001...

Query Completed

5.

The screenshot shows the Oracle SQL Developer interface with a query editor window. The schema 'RAMANUJAN' is selected. The code entered is:

```
62
63 • SELECT *
64   FROM SOCIETY
65   WHERE TotalSeats > 35;
66
```

The results grid shows the following data:

SocID	SocName	MentorName	TotalSeats
101	Quick Sort	Vipin Sir	50
102	Ramanugen	Arun Sir	40
HULL	HULL	HULL	HULL

The log pane at the bottom displays the following actions:

Action	Time	Response	Duration / Fetch Time
SELECT * FROM SOCIETY WHERE TotalSeats > 5 LIMIT 0, 1000	16:54:00	5 row(s) returned	0.0021 sec / 0.00001...
SELECT * FROM SOCIETY WHERE TotalSeats > 35 LIMIT 0, 1000	16:54:32	2 row(s) returned	0.00056 sec / 0.000...

6

```

62 •   SELECT *
63   FROM SOCIETY
64   WHERE TotalSeats > 35;
65
66
100%  ◇  1:66

Result Grid  Filter Rows: Search  Edit: Export/Import:  Result Grid
SocID SocName MentorName TotalSeats
101 Quick Sort Vipin Sir 50
102 Ramanugen Arun Sir 40
NULL NULL NULL NULL
SOCIETY 7
Action Output
Time Action Response Duration / Fetch Time
1 16:54:00 SELECT * FROM SOCIETY WHERE TotalSeats > 5 LIMIT 0, 1000 5 row(s) returned 0.0021 sec / 0.00001...
2 16:54:32 SELECT * FROM SOCIETY WHERE TotalSeats > 35 LIMIT 0, 1000 2 row(s) returned 0.00056 sec / 0.000...

```

7

```

67 •   UPDATE SOCIETY
68   SET MentorName = 'Nikhil Sir'
69   WHERE SocID = '105';
70
71 •   SELECT * FROM SOCIETY;
72
73
100%  ◇  1:73

Result Grid  Filter Rows: Search  Edit: Export/Import:  Result Grid
SocID SocName MentorName TotalSeats
101 Quick Sort Vipin Sir 50
102 Ramanugen Arun Sir 40
103 GSS Subodh Sir 30
104 Ramcom Sahil Sir 35
105 YUVA Nikhil Sir 25
NULL NULL NULL NULL
SOCIETY 8
Action Output
Time Action Response Duration / Fetch Time
1 16:57:57 UPDATE SOCIETY SET MentorName = 'Nikhil Sir' WHERE SocID = '105' 1 row(s) affected Rows matched: 1 Changed: 1 Warni... 0.0060 sec
2 16:58:37 SELECT * FROM SOCIETY LIMIT 0, 1000 5 row(s) returned 0.00041 sec / 0.0000...

```

8

```

72
73 •   SELECT s.SocName
74   FROM SOCIETY s
75   JOIN ENROLLMENT e ON s.SocID = e.SID
76   GROUP BY s.SocName
77   HAVING COUNT(*) > 5;
78
100%  ◇  21:77

Result Grid  Filter Rows: Search  Export:  Result Grid
S...
Result 9
Read Only
Action Output
Time Action Response Duration / Fetch Time
1 17:02:55 SELECT s.SocName FROM SOCIETY s JOIN ENROLLMENT e ON s.SocID = e.SID GROUP BY s.SocName HAVING COU... 0 row(s) returned 0.0037 sec / 0.00001...

```

9.

```
79 • SELECT s.StudentName
80   FROM STUDENT s
81   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
82   JOIN SOCIETY soc ON e.SID = soc.SocID
83   WHERE soc.SocName = 'NSS'
84   ORDER BY s.DOB ASC
85   LIMIT 1;
86
```

100% 19:54 | Result Grid Filter Rows: Search Export: Result Grid Read Only

Action Output | Time Action | Response Duration / Fetch Time

1 17:04:43 SELECT s.StudentName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo JOIN SOCIETY soc ON e.SID... 0 row(s) returned 0.0012 sec / 0.00000...

10.

```
87 • SELECT soc.SocName
88   FROM SOCIETY soc
89   JOIN ENROLLMENT e ON soc.SocID = e.SID
90   GROUP BY soc.SocID
91   ORDER BY COUNT(*) DESC
92   LIMIT 1;
93
```

100% 1:53 | Result Grid Filter Rows: Search Export: Fetch rows: Result Grid Form Editor Read Only

Action Output | Time Action | Response Duration / Fetch Time

1 17:06:10 SELECT soc.SocName FROM SOCIETY soc JOIN ENROLLMENT e ON soc.SocID = e.SID GROUP BY soc.SocID ORDER... 1 row(s) returned 0.0022 sec / 0.00001...

11.

```
93
94 • SELECT soc.SocName
95   FROM SOCIETY soc
96   LEFT JOIN ENROLLMENT e ON soc.SocID = e.SID
97   GROUP BY soc.SocID
98   ORDER BY COUNT(*) ASC
99   LIMIT 2;
100
101
```

100% 1:101 | Result Grid Filter Rows: Search Export: Fetch rows: Result Grid Read Only

Action Output | Time Action | Response Duration / Fetch Time

1 17:07:30 SELECT soc.SocName FROM SOCIETY soc LEFT JOIN ENROLLMENT e ON soc.SocID = e.SID GROUP BY soc.SocID OR... 2 row(s) returned 0.0011 sec / 0.00001...

12.

```
100 • SELECT s.StudentName
101   FROM STUDENT s
102   LEFT JOIN ENROLLMENT e ON s.RollNo = e.RollNo
103 WHERE e.RollNo IS NULL;
104
105
100% 1:105
Result Grid Filter Rows: Search Export: Result Grid
Student... Result 13 Read Only
Action Output Time Action Response Duration / Fetch Time
1 17:08:48 SELECT s.StudentName FROM STUDENT s LEFT JOIN ENROLLMENT e ON s.RollNo = e.RollNo WHERE e.RollNo IS NU... 0 row(s) returned 0.0018 sec / 0.00001...
```

13.

```
107 • SELECT s.StudentName
108   FROM STUDENT s
109   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
110 GROUP BY s.RollNo
111 HAVING COUNT(DISTINCT e.SID) >= 2;
112
100% 1:112
Result Grid Filter Rows: Search Export: Result Grid
StudentName Result 14 Read Only
Action Output Time Action Response Duration / Fetch Time
1 17:09:51 SELECT s.StudentName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo GROUP BY s.RollNo HAVING... 0 row(s) returned 0.0027 sec / 0.00001...
```

14

```
114 • SELECT soc.SocName
115   FROM SOCIETY soc
116   JOIN (
117     SELECT SID, COUNT(*) AS NumEnrollments
118     FROM ENROLLMENT
119     GROUP BY SID
120     ORDER BY COUNT(*) DESC
121     LIMIT 1
122   ) max_enroll ON soc.SocID = max_enroll.SID;
123
100% 1:123
Result Grid Filter Rows: Search Export: Result Grid
SocName Result 15 Read Only
Action Output Time Action Response Duration / Fetch Time
1 17:10:55 SELECT soc.SocName FROM SOCIETY soc JOIN ( SELECT SID, COUNT(*) AS NumEnrollments FROM ENROLLME... 1 row(s) returned 0.0029 sec / 0.00001...
```

15.

```
124 •  SELECT DISTINCT s.StudentName, soc.SocName
125   FROM STUDENT s
126   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
127   JOIN SOCIETY soc ON e.SID = soc.SocID;
128
129
```

100% 1:129

Result Grid Filter Rows: Search Export: Result Grid

StudentName	SocName
Ayush Ranjan	Quick Sort
Prashant	Ramanugen
Om	GSS
Aditya	Ramcom
Chanchal	YUVA

Result 18 Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:12:23	SELECT DISTINCT s.StudentName, soc.SocName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo JOIN SOCIETY soc...	5 row(s) returned	0.00083 sec / 0.000...

16.

```
130
131 •  SELECT DISTINCT s.StudentName
132   FROM STUDENT s
133   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
134   JOIN SOCIETY soc ON e.SID = soc.SocID
135   WHERE soc.SocName IN ('Debating', 'Dancing', 'Sashakt');
136
```

100% 1:136

Result Grid Filter Rows: Search Export: Result Grid

StudentName

Result 19 Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:13:48	SELECT DISTINCT s.StudentName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo JOIN SOCIETY soc...	0 row(s) returned	0.0021 sec / 0.00002...

17.

```
138
139 •  SELECT SocName
140   FROM SOCIETY
141   WHERE MentorName LIKE '%Gupta%';
142
143
144
```

100% 1:143

Result Grid Filter Rows: Search Export: Result Grid

SocName

SOCIETY 20 Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:15:37	SELECT SocName FROM SOCIETY WHERE MentorName LIKE '%Gupta%' LIMIT 0, 1000	0 row(s) returned	0.0012 sec / 0.00001...

18.

```
142 •   SELECT s.SocName
143     FROM SOCIETY s
144
145   JOIN (
146     SELECT SID, COUNT(*) AS EnrolledCount
147       FROM ENROLLMENT
148      GROUP BY SID
149   ) e ON s.SocID = e.SID
150   WHERE e.EnrolledCount <= 0.1 * s.TotalSeats;
151
152
```

Result Grid | Filter Rows: Search Export: Result Grid | Form Editor | Read Only

SocName
Quick Sort
Ramanugen
GSS
Ramcom
YUVA

Action Output | Time Action | Response | Duration / Fetch Time

Time	Action	Response	Duration / Fetch Time
17:16:28	SELECT s.SocName FROM SOCIETY s JOIN (SELECT SID, COUNT(*) AS EnrolledCount FROM ENROLLMENT G...) e ON s.SocID = e.SID; WHERE e.EnrolledCount <= 0.1 * s.TotalSeats;	5 row(s) returned	0.0014 sec / 0.00001...

19.

```
151
152 •   SELECT s.SocName, s.TotalSeats - COALESCE(e.EnrolledCount, 0) AS VacantSeats
153     FROM SOCIETY s
154
155   LEFT JOIN (
156     SELECT SID, COUNT(*) AS EnrolledCount
157       FROM ENROLLMENT
158      GROUP BY SID
159   ) e ON s.SocID = e.SID;
159
```

Result Grid | Filter Rows: Search Export: Result Grid | Form Editor | Read Only

SocName	VacantSeats
Quick Sort	49
Ramanugen	39
GSS	29
Ramcom	34
YUVA	24

Action Output | Time Action | Response | Duration / Fetch Time

Time	Action	Response	Duration / Fetch Time
17:18:05	SELECT s.SocName, s.TotalSeats - COALESCE(e.EnrolledCount, 0) AS VacantSeats FROM SOCIETY s LEFT JOIN (SELECT SID, COUNT(*) AS EnrolledCount FROM ENROLLMENT G...) e ON s.SocID = e.SID;	5 row(s) returned	0.0020 sec / 0.00001...

20.

```
164
165 •   UPDATE SOCIETY
166   SET TotalSeats = TotalSeats * 1.1
167   WHERE SocID IS NOT NULL;
168
169
```

Result Grid | Filter Rows: Search Export: Result Grid | Form Editor | Read Only

Action Output | Time Action | Response | Duration / Fetch Time

Time	Action	Response	Duration / Fetch Time
17:27:21	UPDATE SOCIETY SET TotalSeats = TotalSeats * 1.1 WHERE SocID IS NOT NULL	5 row(s) affected Rows matched: 5 Changed: 5 Warnings: 0 0.012 sec	

21.

```
169
170 • ALTER TABLE ENROLLMENT
171     ADD COLUMN FeesPaid ENUM('yes', 'no') NOT NULL DEFAULT 'no';
172
173
100%  ◊  1:168 |
```

Action Output ◊

	Time	Action	Response	Duration / Fetch Time
✓ 1	17:28:23	ALTER TABLE ENROLLMENT ADD COLUMN FeesPaid ENUM('yes', 'no') NOT NULL DEFAULT 'no'	0 row(s) affected Records: 0 Duplicates: 0 Warnings... 0.031 sec	

22.

```
173
174 • UPDATE ENROLLMENT
175     SET DateOfEnrollment = '2018-01-15'
176     WHERE SID = '101';
177
178
179 • UPDATE ENROLLMENT
180     SET DateOfEnrollment = CURRENT_DATE()
181     WHERE SID = '102';
182
183
184 • UPDATE ENROLLMENT
185     SET DateOfEnrollment = '2018-01-02'
186     WHERE SID = '103';
187
188 • SELECT * FROM ENROLLMENT;
```

100% ◊ 26:188 |

Result Grid Filter Rows: Search Export:

RollNo	SID	DateOfEnrollment	FeesPaid
1	101	2018-01-15	no
2	102	2024-05-05	no
3	103	2018-01-02	no
4	104	2024-02-22	no
5	105	2024-01-17	no

ENROLLMENT 1 Result Grid Form Editor

Read Only

Action Output ◊

	Time	Action	Response	Duration / Fetch Time
✓ 1	17:30:23	UPDATE ENROLLMENT SET DateOfEnrollment = '2018-01-15' WHERE SID = '101'	1 row(s) affected Rows matched: 1 Changed: 1 Warni... 0.0042 sec	
✓ 2	17:30:26	UPDATE ENROLLMENT SET DateOfEnrollment = CURRENT_DATE() WHERE SID = '102'	1 row(s) affected Rows matched: 1 Changed: 1 Warni... 0.0020 sec	
✓ 3	17:30:30	UPDATE ENROLLMENT SET DateOfEnrollment = '2018-01-02' WHERE SID = '103'	1 row(s) affected Rows matched: 1 Changed: 1 Warni... 0.0015 sec	
✓ 4	17:31:01	SELECT * FROM ENROLLMENT LIMIT 0, 1000	5 row(s) returned 0.00059 sec / 0.000...	

23.

```
190 • CREATE VIEW SocietyEnrollmentView AS
191     SELECT s.SocName, COUNT(e.RollNo) AS TotalEnrolled
192     FROM SOCIETY s
193     LEFT JOIN ENROLLMENT e ON s.SocID = e.SID
194     GROUP BY s.SocID, s.SocName;
195
196
197
100%  ◊  19:186 |
```

Action Output ◊

	Time	Action	Response	Duration / Fetch Time
✓ 1	17:32:19	CREATE VIEW SocietyEnrollmentView AS SELECT s.SocName, COUNT(e.RollNo) AS TotalEnrolled FROM SOCIETY s LE...	0 row(s) affected	0.0083 sec

24.

```
196
197 • SELECT s.StudentName
198   FROM STUDENT s
199   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
200   GROUP BY s.RollNo, s.StudentName
201   HAVING COUNT(DISTINCT e.SID) = (SELECT COUNT(*) FROM SOCIETY);
202

100%  37:190 |
```

Result Grid Filter Rows: Search Export:

StudentName

Result 2

Read Only

Action Output

Action	Time	Response	Duration / Fetch Time
1 17:33:12 SELECT s.StudentName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo GROUP BY s.RollNo, s.StudentName HAVING COUNT(DISTINCT e.SID) = (SELECT COUNT(*) FROM SOCIETY);		0 row(s) returned	0.0045 sec / 0.00001...

25.

```
203
204 • SELECT COUNT(*) AS SocietyCount
205   FROM (
206     SELECT SID, COUNT(*) AS EnrolledCount
207       FROM ENROLLMENT
208      GROUP BY SID
209      HAVING EnrolledCount > 5
210   ) AS SocietyWithMoreThanFiveStudents;
211
212

100%  1:196 |
```

Result Grid Filter Rows: Search Export:

SocietyCount
0

Result 3

Read Only

Action Output

Action	Time	Response	Duration / Fetch Time
1 17:34:22 SELECT COUNT(*) AS SocietyCount FROM (SELECT SID, COUNT(*) AS EnrolledCount FROM ENROLLMENT G...) AS SocietyWithMoreThanFiveStudents;		1 row(s) returned	0.0016 sec / 0.00002...

26.

```
212 • ALTER TABLE STUDENT
213   ADD COLUMN MobileNumber VARCHAR(15) DEFAULT '9999999999';
214

100%  21:197 |
```

Action Output

Action	Time	Response	Duration / Fetch Time
1 17:35:22 ALTER TABLE STUDENT ADD COLUMN MobileNumber VARCHAR(15) DEFAULT '9999999999'		0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.019 sec

27.

```
215
216 • SELECT COUNT(*) AS TotalStudentsOver20
217   FROM STUDENT
218   WHERE DATEDIFF(CURRENT_DATE(), DOB) > 20*365.25;
219
220
```

100% 17:208

Result Grid Filter Rows: Search Export: Result Grid

TotalStudentsOver20
3

Result 4

Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:36:24	SELECT COUNT(*) AS TotalStudentsOver20 FROM STUDENT WHERE DATEDIFF(CURRENT_DATE(), DOB) > 20*365.25...	1 row(s) returned	0.0019 sec / 0.00002...

28.

```
220
221 • SELECT DISTINCT s.StudentName
222   FROM STUDENT s
223   JOIN ENROLLMENT e ON s.RollNo = e.RollNo
224   WHERE YEAR(s.DOB) = 2001;
225
226
227
```

100% 58:213

Result Grid Filter Rows: Search Export: Result Grid

StudentName

Result 5

Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:37:19	SELECT DISTINCT s.StudentName FROM STUDENT s JOIN ENROLLMENT e ON s.RollNo = e.RollNo WHERE YEAR(s.D... 0 row(s) returned		0.0055 sec / 0.00001...

29.

```
225
226 • SELECT COUNT(*) AS SocietyCount
227   FROM (
228     SELECT s.SocID
229       FROM SOCIETY s
230      JOIN ENROLLMENT e ON s.SocID = e.SID
231      WHERE s.SocName LIKE 'S%t'
232      GROUP BY s.SocID
233      HAVING COUNT(*) >= 5
234   ) AS SocietyWithFiveOrMoreStudents;
235
```

100% 50:218

Result Grid Filter Rows: Search Export: Result Grid

SocietyCount
0

Result 6

Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
1 17:38:48	SELECT COUNT(*) AS SocietyCount FROM (SELECT s.SocID FROM SOCIETY s JOIN ENROLLMENT e ON s.Soc... 1 row(s) returned		0.0012 sec / 0.00001...

30.

```
236
237 • SELECT
238     s.SocName AS SocietyName,
239     s.MentorName,
240     s.TotalSeats AS TotalCapacity,
241     COUNT(e.RollNo) AS TotalEnrolled,
242     (s.TotalSeats - COUNT(e.RollNo)) AS UnfilledSeats
243 FROM
244     SOCIETY s
245 LEFT JOIN
246     ENROLLMENT e ON s.SocID = e.SID
247 GROUP BY
248     s.SocID, s.SocName, s.MentorName, s.TotalSeats;
249
```

100% ◇ 31:231

Result Grid Filter Rows: Search Export: Result Grid Form Editor

SocietyName	MentorName	TotalCapacity	TotalEnrolled	UnfilledSeats
Quick Sort	Vipin Sir	55	1	54
Ramanugen	Arun Sir	44	1	43
GSS	Subodh Sir	33	1	32
Hamcom	Sahil Sir	39	1	38
YUVA	Nikhil Sir	28	1	27

Result 7 Read Only

Action Output ◇

	Time	Action	Response	Duration / Fetch Time
1	17:39:52	SELECT s.SocName AS SocietyName, s.MentorName, s.TotalSeats AS TotalCapacity, COUNT(e.RollNo) AS To... 5 row(s) returned		0.0028 sec / 0.00002...

II.

create user

```
1 • SELECT * FROM mysql.user WHERE user = 'Ayush';
2 • CREATE USER 'Ayush'@'%' IDENTIFIED BY 'Host@222';
3
4
```

100% ◇ 1:2

Action Output ◇

	Time	Action	Response	Duration / Fetch Time
✖ 1	17:56:22	CREATE USER username IDENTIFIED BY 'password'	Error Code: 1396. Operation CREATE USER failed for ...	0.0072 sec
✓ 2	17:57:35	SELECT * FROM mysql.user WHERE user = 'Ayush' LIMIT 0, 1000	0 row(s) returned	0.0018 sec / 0.00005...
✓ 3	17:59:47	CREATE USER 'Ayush'@'%' IDENTIFIED BY 'Host@222'	0 row(s) affected	0.016 sec

Create role

```
4 • CREATE ROLE sales_manager;
5
```

The screenshot shows a MySQL command-line interface. The top part displays the SQL command: 'CREATE ROLE sales_manager;'. The bottom part shows the 'Action Output' tab with a single row of results:

Time	Action	Response	Duration / Fetch Time
18:01:46	CREATE ROLE sales_manager	0 row(s) affected	0.0067 sec

grant privileges to a role

```
17 • GRANT SELECT, INSERT ON employees TO sales_manager;
18
```

The screenshot shows a MySQL command-line interface. The top part displays the SQL command: 'GRANT SELECT, INSERT ON employees TO sales_manager;'. The bottom part shows the 'Action Output' tab with a single row of results:

Time	Action	Response	Duration / Fetch Time
18:04:46	GRANT SELECT, INSERT ON employees TO sales_manager	0 row(s) affected	0.00096 sec

revoke privileges from a role

```
19 • REVOKE SELECT, INSERT ON employees FROM sales_manager;
20
```

The screenshot shows a MySQL command-line interface. The top part displays the SQL command: 'REVOKE SELECT, INSERT ON employees FROM sales_manager;'. The bottom part shows the 'Action Output' tab with a single row of results:

Time	Action	Response	Duration / Fetch Time
18:05:43	REVOKE SELECT, INSERT ON employees FROM sales_manager	0 row(s) affected	0.0036 sec

Create index

```
24
25 • CREATE INDEX idx_lastname ON employees (lastname);
26
27

100%   ◊  1:10

Action Output  ◊

| Time | Action | Response | Duration / Fetch Time |
| 1 18:08:34 CREATE INDEX idx_lastname ON employees (lastname) | 0 row(s) affected Records: 0 Duplicates: 0 Warnings... 0.0096 sec |
```

-----XXXXXX-----