

```
1 • CREATE DATABASE COLLEGEDB;
2 • USE COLLEGEDB;
3
4 • CREATE TABLE STUDENT (
5     USN VARCHAR (10),
6     SNAME VARCHAR (25),
7     ADDRESS VARCHAR (25),
8     PHONE LONG,
9     GENDER CHAR (1),
10    PRIMARY KEY (USN));
11
12 • select * from student;
13
14 • CREATE TABLE SEMSEC (
15     SSID VARCHAR (5),
16     SEM INT,
17     SEC CHAR (1),
18     PRIMARY KEY (SSID));
19 • select * from semsec;
20
21 • CREATE TABLE CLASS (
22     USN VARCHAR (10),
23     SSID VARCHAR (5),
24     PRIMARY KEY (USN, SSID),
```


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File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6*

Limit to 200 rows

```
46 FOREIGN KEY (USN) REFERENCES STUDENT (USN),
47 FOREIGN KEY (SUBCODE) REFERENCES SUBJECT (SUBCODE),
48 FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
49 • select * from iamarks;
50
51 • INSERT INTO STUDENT VALUES ('1RN13CS020','AKSHAY','BELAGAVI', 8877881122,'M');
52 • INSERT INTO STUDENT VALUES ('1RN13CS062','SANDHYA','BENGALURU', 7722829912,'F');
53 • INSERT INTO STUDENT VALUES ('1RN13CS091','TEESHA','BENGALURU', 7712312312,'F');
54 • INSERT INTO STUDENT VALUES ('1RN13CS066','SUPRIYA','MANGALURU', 8877881122,'F');
55 • INSERT INTO STUDENT VALUES ('1RN14CS010','ABHAY','BENGALURU', 9900211201,'M');
56 • INSERT INTO STUDENT VALUES ('1RN14CS032','BHASKAR','BENGALURU', 9923211099,'M');
57 • INSERT INTO STUDENT VALUES ('1RN14CS025','ASMI','BENGALURU', 7894737377,'F');
58 • INSERT INTO STUDENT VALUES ('1RN15CS011','AJAY','TUMKUR', 9845091341,'M');
59
60
61 • INSERT INTO STUDENT VALUES ('1RN15CS029','CHITRA','DAVANGERE', 7696772121,'F');
62 • INSERT INTO STUDENT VALUES ('1RN15CS045','JEEVA','BELLARY', 9944850121,'M');
63 • INSERT INTO STUDENT VALUES ('1RN15CS091','SANTOSH','MANGALURU', 8812332201,'M');
64 • INSERT INTO STUDENT VALUES ('1RN16CS045','ISMAIL','KALBURGI', 9900232201,'M');
65 • INSERT INTO STUDENT VALUES ('1RN16CS088','SAMEERA','SHIMOGA', 9905542212,'F');
66 • INSERT INTO STUDENT VALUES ('1RN16CS122','VINAYAKA','CHIKAMAGALUR', 8800880011,'M');
67
68
69
```

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Limit to 200 rows

```
70 • INSERT INTO SEMSEC VALUES ('CSE8A', 8, 'A');
71 • INSERT INTO SEMSEC VALUES ('CSE8B', 8, 'B');
72 • INSERT INTO SEMSEC VALUES ('CSE8C', 8, 'C');
73 • INSERT INTO SEMSEC VALUES ('CSE7A', 7, 'A');
74 • INSERT INTO SEMSEC VALUES ('CSE7B', 7, 'B');
75 • INSERT INTO SEMSEC VALUES ('CSE7C', 7, 'C');
76 • INSERT INTO SEMSEC VALUES ('CSE6A', 6, 'A');
77 • INSERT INTO SEMSEC VALUES ('CSE6B', 6, 'B');
78 • INSERT INTO SEMSEC VALUES ('CSE6C', 6, 'C');
79 • INSERT INTO SEMSEC VALUES ('CSE5A', 5, 'A');
80 • INSERT INTO SEMSEC VALUES ('CSE5B', 5, 'B');
81 • INSERT INTO SEMSEC VALUES ('CSE5C', 5, 'C');
82 • INSERT INTO SEMSEC VALUES ('CSE4A', 4, 'A');
83 • INSERT INTO SEMSEC VALUES ('CSE4B', 4, 'B');
84 • INSERT INTO SEMSEC VALUES ('CSE4C', 4, 'C');
85 • INSERT INTO SEMSEC VALUES ('CSE3A', 3, 'A');
86 • INSERT INTO SEMSEC VALUES ('CSE3B', 3, 'B');
87 • INSERT INTO SEMSEC VALUES ('CSE3C', 3, 'C');
88 • INSERT INTO SEMSEC VALUES ('CSE2A', 2, 'A');
89 • INSERT INTO SEMSEC VALUES ('CSE2B', 2, 'B');
90 • INSERT INTO SEMSEC VALUES ('CSE2C', 2, 'C');
91 • INSERT INTO SEMSEC VALUES ('CSE1A', 1, 'A');
92 • INSERT INTO SEMSEC VALUES ('CSE1B', 1, 'B');
93 • INSERT INTO SEMSEC VALUES ('CSE1C', 1, 'C');
```

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MySQL Workbench

dbms server x

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
91 • INSERT INTO SEMSEC VALUES ('CSE1A', 1, 'A');
92 • INSERT INTO SEMSEC VALUES ('CSE1B', 1, 'B');
93 • INSERT INTO SEMSEC VALUES ('CSE1C', 1, 'C');
94
95 • INSERT INTO CLASS VALUES ('1RN13CS020', 'CSE8A');
96 • INSERT INTO CLASS VALUES ('1RN13CS062', 'CSE8A');
97 • INSERT INTO CLASS VALUES ('1RN13CS066', 'CSE8B');
98 • INSERT INTO CLASS VALUES ('1RN13CS091', 'CSE8C');
99 • INSERT INTO CLASS VALUES ('1RN14CS010', 'CSE7A');
100 • INSERT INTO CLASS VALUES ('1RN14CS025', 'CSE7A');
101 • INSERT INTO CLASS VALUES ('1RN14CS032', 'CSE7A');
102 • INSERT INTO CLASS VALUES ('1RN15CS011', 'CSE4A');
103 • INSERT INTO CLASS VALUES ('1RN15CS029', 'CSE4A');
104 • INSERT INTO CLASS VALUES ('1RN15CS045', 'CSE4B');
105 • INSERT INTO CLASS VALUES ('1RN15CS091', 'CSE4C');
106 • INSERT INTO CLASS VALUES ('1RN16CS045', 'CSE3A');
107 • INSERT INTO CLASS VALUES ('1RN16CS088', 'CSE3B');
108 • INSERT INTO CLASS VALUES ('1RN16CS122', 'CSE3C');
109
110
111 • INSERT INTO SUBJECT VALUES ('10CS81', 'ACA', 8, 4);
112 • INSERT INTO SUBJECT VALUES ('10CS82', 'SSM', 8, 4);
113 • INSERT INTO SUBJECT VALUES ('10CS83', 'NM', 8, 4);
114 • INSERT INTO SUBJECT VALUES ('10CS84', 'CC', 8, 4);
```

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Limit to 200 rows

```
112 • INSERT INTO SUBJECT VALUES ('10CS82','SSM', 8, 4);
113 • INSERT INTO SUBJECT VALUES ('10CS83','NM', 8, 4);
114 • INSERT INTO SUBJECT VALUES ('10CS84','CC', 8, 4);
115 • INSERT INTO SUBJECT VALUES ('10CS85','PW', 8, 4);
116 • INSERT INTO SUBJECT VALUES ('10CS71','OOD', 7, 4);
117 • INSERT INTO SUBJECT VALUES ('10CS72','ECS', 7, 4);
118 • INSERT INTO SUBJECT VALUES ('10CS73','PTW', 7, 4);
119 • INSERT INTO SUBJECT VALUES ('10CS74','DWD', 7, 4);
120 • INSERT INTO SUBJECT VALUES ('10CS75','JAVA', 7, 4);
121 • INSERT INTO SUBJECT VALUES ('10CS76','SAN', 7, 4);
122 • INSERT INTO SUBJECT VALUES ('15CS51','ME', 5, 4);
123 • INSERT INTO SUBJECT VALUES ('15CS52','CN', 5, 4);
124 • INSERT INTO SUBJECT VALUES ('15CS53','DBMS', 5, 4);
125 • INSERT INTO SUBJECT VALUES ('15CS54','ATC', 5, 4);
126 • INSERT INTO SUBJECT VALUES ('15CS55','JAVA', 5, 3);
127 • INSERT INTO SUBJECT VALUES ('15CS56','AI', 5, 3);
128 • INSERT INTO SUBJECT VALUES ('15CS41','M4', 4, 4);
129 • INSERT INTO SUBJECT VALUES ('15CS42','SE', 4, 4);
130 • INSERT INTO SUBJECT VALUES ('15CS43','DAA', 4, 4);
131 • INSERT INTO SUBJECT VALUES ('15CS44','MPMC', 4, 4);
132 • INSERT INTO SUBJECT VALUES ('15CS45','OOC', 4, 3);
133 • INSERT INTO SUBJECT VALUES ('15CS46','DC', 4, 3);
134 • INSERT INTO SUBJECT VALUES ('15CS31','M3', 3, 4);
135 • INSERT INTO SUBJECT VALUES ('15CS32','ADE', 3, 4);
```

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dbms server

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6*

Limit to 200 rows

```
145 • INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES ('1RN13CS091', '10CS85', 'CSE8C', 15, 15, 12);
146
147 /*1. List all the student details studying in fourth semester 'C' section. */
148
149 • SELECT S.*, SS.SEM, SS.SEC
150 FROM STUDENT S, SEMSEC SS, CLASS C
151 WHERE S.USN = C.USN AND
152 SS.SSID = C.SSID AND
153 SS.SEM = 4 AND SS.SEC='C';
154
155 /*2. Compute the total number of male and female students in each semester and in each section. */
156 • SELECT SS.SEM, SS.SEC, S.GENDER, COUNT(S.GENDER) AS COUNT
157 FROM STUDENT S, SEMSEC SS, CLASS C
158 WHERE S.USN = C.USN AND
159 SS.SSID = C.SSID
160 GROUP BY SS.SEM, SS.SEC, S.GENDER
161 ORDER BY SEM;
162
163
164
165 /*3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects. */
166 • CREATE VIEW STU_TEST1_MARKS_VIEW
167 AS
168 SELECT TEST1, SUBCODE
```

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```
166 • CREATE VIEW STU_TEST1_MARKS_VIEW
167 AS
168 SELECT TEST1, SUBCODE
169 FROM IAMARKS
170 WHERE USN = '1RN13CS091';
171
172 • SELECT * FROM STU_TEST1_MARKS_VIEW;
173
174 /*5. Categorize students based on the following criterion:
175 If FinalIA = 17 to 20 then CAT = 'Outstanding'
176 If FinalIA = 12 to 16 then CAT = 'Average'
177 If FinalIA < 12 then CAT = 'Weak'
178 Give these details only for 8th semester A, B, and C section students. */
179 • SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,
180 (CASE
181 WHEN IA.FINALIA BETWEEN 17 AND 20 THEN 'OUTSTANDING'
182 WHEN IA.FINALIA BETWEEN 12 AND 16 THEN 'AVERAGE'
183 ELSE 'WEAK'
184 END) AS CAT
185 FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
186 WHERE S.USN = IA.USN AND
187 SS.SSID = IA.SSID AND
188 SUB.SUBCODE = IA.SUBCODE AND
189 SUB.SEM = 8;
```

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lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6*

Limit to 200 rows

```
7 ADDRESS VARCHAR (25),
8 PHONE LONG,
9 GENDER CHAR (1),
10 PRIMARY KEY (USN));
11
12 • select * from student;
13
14 • CREATE TABLE SEMSEC (
15 SSID VARCHAR (5),
16 SEM INT,
17 SFC CHAR (1).
```

Result Grid

	USN	SNAME	ADDRESS	PHONE	GENDER
▶	1RN13CS020	AKSHAY	BELAGAVI	8877881122	M
	1RN13CS062	SANDHYA	BENGALURU	7722829912	F
	1RN13CS066	SUPRIYA	MANGALURU	8877881122	F
	1RN13CS091	TEESHA	BENGALURU	7712312312	F
	1RN14CS010	ABHAY	BENGALURU	9900211201	M
	1RN14CS025	ASMI	BENGALURU	7894737377	F
	1RN14CS032	BHASKAR	BENGALURU	9923211099	M
	1RN15CS011	AJAY	TUMKUR	9845091341	M
	1RN15CS029	CHITRA	DAVANGERE	7696772121	F
	1RN15CS045	JEEVA	BELLARY	9944850121	M
	1RN15CS091	SANTOSH	MANGALURU	8812332201	M
	1RN16CS045	ISMAIL	KALBURGI	9900232201	M

student 10

Apply Revert

MySQL Workbench

dbms server x

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
10 PRIMARY KEY (USN));
11
12 • select * from student;
13
14 • CREATE TABLE SEMSEC (
15     SSID VARCHAR (5),
16     SEM INT,
17     SEC CHAR (1),
18     PRIMARY KEY (SSID));
19 • select * from semsec;
```

Result Grid

	SSID	SEM	SEC
▶	CSE1A	1	A
	CSE1B	1	B
	CSE1C	1	C
	CSE2A	2	A
	CSE2B	2	B
	CSE2C	2	C
	CSE3A	3	A
	CSE3B	3	B
	CSE3C	3	C
	CSE4A	4	A
	CSE4B	4	B
	CSE4C	4	C

semsec 11 x

Apply Revert

MySQL Workbench

dbms server x

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
19 • select * from semsec;
20
21 • CREATE TABLE CLASS (
22     USN VARCHAR (10),
23     SSID VARCHAR (5),
24     PRIMARY KEY (USN, SSID),
25     FOREIGN KEY (USN) REFERENCES STUDENT (USN),
26     FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
27 • select * from class;
28
29 • CREATE TABLE SUBJECT (
```

Result Grid

	USN	SSID
▶	1RN16CS045	CSE3A
	1RN16CS088	CSE3B
	1RN16CS122	CSE3C
	1RN15CS011	CSE4A
	1RN15CS029	CSE4A
	1RN15CS045	CSE4B
	1RN15CS091	CSE4C
	1RN14CS010	CSE7A
	1RN14CS025	CSE7A
	1RN14CS032	CSE7A
	1RN13CS020	CSE8A
	1RN13CS062	CSE8A

class 12 x

Apply Revert

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dbms server

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6*

Limit to 200 rows

```
28
29 • CREATE TABLE SUBJECT (
30     SUBCODE VARCHAR (8),
31     TITLE VARCHAR (20),
32     SEM INT,
33     CREDITS INT,
34     PRIMARY KEY (SUBCODE));
35 • select * from subject;
36
37 • CREATE TABLE IAMARKS (
38     IISN VARCHAR (10).
```

Result Grid

	SUBCODE	TITLE	SEM	CREDITS
▶	10CS71	OOAD	7	4
	10CS72	ECS	7	4
	10CS73	PTW	7	4
	10CS74	DWDM	7	4
	10CS75	JAVA	7	4
	10CS76	SAN	7	4
	10CS81	ACA	8	4
	10CS82	SSM	8	4
	10CS83	NM	8	4
	10CS84	CC	8	4
	10CS85	PW	8	4
	15CS31	M3	3	4

subject 13

Apply Revert

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dbms server x

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lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
40 SSID VARCHAR (5),
41 TEST1 INT,
42 TEST2 INT,
43 TEST3 INT,
44 FINALIA INT,
45 PRIMARY KEY (USN, SUBCODE, SSID),
46 FOREIGN KEY (USN) REFERENCES STUDENT (USN),
47 FOREIGN KEY (SUBCODE) REFERENCES SUBJECT (SUBCODE),
48 FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
49 • select * from iamarks;
50
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
▶	1RN13CS091	10CS81	CSE8C	15	16	18	NULL
	1RN13CS091	10CS82	CSE8C	12	19	14	NULL
	1RN13CS091	10CS83	CSE8C	19	15	20	NULL
	1RN13CS091	10CS84	CSE8C	20	16	19	NULL
	1RN13CS091	10CS85	CSE8C	15	15	12	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

iamarks 14 x Apply Revert

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MySQL Workbench

dbms server

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6*

Limit to 200 rows

```
145 • INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES ('1RN13CS091', '10CS85', 'CSE8C', 15, 15, 12);
146
147 /*1. List all the student details studying in fourth semester 'C' section. */
148
149 • SELECT S.*, SS.SEM, SS.SEC
150 FROM STUDENT S, SEMSEC SS, CLASS C
151 WHERE S.USN = C.USN AND
152 SS.SSID = C.SSID AND
153 SS.SEM = 4 AND SS.SEC='C';
154
155 /*2. Compute the total number of male and female students in each semester and in each section. */
```

Result Grid

	USN	SNAME	ADDRESS	PHONE	GENDER	SEM	SEC
▶	1RN15CS091	SANTOSH	MANGALURU	8812332201	M	4	C

Result 15

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MySQL Workbench

dbms server x

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lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
151 WHERE S.USN = C.USN AND
152 SS.SSID = C.SSID AND
153 SS.SEM = 4 AND SS.SEC='C';
154
155 /*2. Compute the total number of male and female students in each semester and in each section. */
156 • SELECT SS.SEM, SS.SEC, S.GENDER, COUNT(S.GENDER) AS COUNT
157 FROM STUDENT S, SEMSEC SS, CLASS C
158 WHERE S.USN = C.USN AND
159 SS.SSID = C.SSID
160 GROUP BY SS.SEM, SS.SEC, S.GENDER
161 ORDER BY SEM;
```

Result Grid

	SEM	SEC	GENDER	COUNT
▶	3	A	M	1
	3	B	F	1
	3	C	M	1
	4	A	F	1
	4	A	M	1
	4	B	M	1
	4	C	M	1
	7	A	F	1
	7	A	M	2
	8	A	F	1
	8	A	M	1
	8	B	F	1

Result 16 x

Read Only

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dbms server x

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lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
163
164
165 /*3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects. */
166 • CREATE VIEW STU_TEST1_MARKS_VIEW
167 AS
168 SELECT TEST1, SUBCODE
169 FROM IAMARKS
170 WHERE USN = '1RN13CS091';
171
172 • SELECT * FROM STU_TEST1_MARKS_VIEW;
173
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	TEST1	SUBCODE
▶	15	10CS81
	12	10CS82
	19	10CS83
	20	10CS84
	15	10CS85

STU_TEST1_MARKS_VIEW 17 x Read Only

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dbms server x

File Edit View Query Database Server Tools Scripting Help

lab 6 dbms lab 7 dbms lab 8 dbms lab 9 dbms SQL File 6* x

Limit to 200 rows

```
170 WHERE USN = '1RN13CS091';
171
172 • SELECT * FROM STU_TEST1_MARKS_VIEW;
173
174 /*5. Categorize students based on the following criterion:
175 If FinalIA = 17 to 20 then CAT = 'Outstanding'
176 If FinalIA = 12 to 16 then CAT = 'Average'
177 If FinalIA < 12 then CAT = 'Weak'
178 Give these details only for 8th semester A, B, and C section students. */
179 • SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,
180 (CASE
```

Result Grid

Filter Rows: Export: Wrap Cell Content:

	USN	SNAME	ADDRESS	PHONE	GENDER	CAT
▶	1RN13CS091	TEESHA	BENGALURU	7712312312	F	WEAK
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	WEAK
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	WEAK
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	WEAK
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	WEAK

Result 18 x Read Only

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