

**create database college;**

**use college;**

**CREATE TABLE STUDENT (  
USN VARCHAR (10) PRIMARY KEY,  
SNAME VARCHAR (25),  
ADDRESS VARCHAR (25),  
PHONE int (10),  
GENDER CHAR (1));**

**CREATE TABLE SEMSEC (  
SSID VARCHAR (5) PRIMARY KEY,  
SEM int (2),  
SEC CHAR (1));**

**CREATE TABLE CLASS (  
USN VARCHAR (10),  
SSID VARCHAR (5),  
PRIMARY KEY (USN),  
FOREIGN KEY (USN) REFERENCES STUDENT (USN),  
FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));**

**CREATE TABLE SUBJECT (  
SUBCODE VARCHAR (8),  
TITLE VARCHAR (20),  
SEM int (2),  
CREDITS int(2),**

```
PRIMARY KEY (SUBCODE));  
CREATE TABLE IAMARKS (  
USN VARCHAR (10),  
SUBCODE VARCHAR (8),  
SSID VARCHAR (5),  
TEST1 int (2),  
TEST2 int (2),  
TEST3 int (2),  
FINALIA int (2),  
FOREIGN KEY (USN) REFERENCES STUDENT (USN),  
FOREIGN KEY (SUBCODE) REFERENCES SUBJECT (SUBCODE),  
FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
```

```
INSERT INTO STUDENT VALUES ('1BM19CS066','SUPRIYA','MANGALURU',  
8871122,'F');
```

```
INSERT INTO SEMSEC VALUES ('4A', 4,'A');
```

```
INSERT INTO CLASS VALUES ('1BM19CS066','4B');
```

```
INSERT INTO SUBJECT VALUES ('10CS81','ADA', 4, 4);
```

```
INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES  
('1BM19CS011','10CS81','4C', 10, 16, 08);
```

```
select * FROM STUDENT S JOIN CLASS C ON S.USN=C.USN AND SSID='4C';
```

```
SELECT SEM,SEC,GENDER,COUNT(GENDER) FROM STUDENT S JOIN CLASS C
ON S.USN=C.USN JOIN SEMSEC SE ON C.SSID=SE.SSID GROUP BY
GENDER,SEM,SEC ORDER BY SEM;
```

```
CREATE VIEW T1 AS SELECT SUBCODE,TEST1 FROM IAMARKS WHERE
USN='1BM18CS032';
```

```
SELECT * FROM T1;
```

```
SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,
(CASE
WHEN IA.TEST1 BETWEEN 17 AND 20 THEN 'OUTSTANDING'
WHEN IA.TEST1 BETWEEN 12 AND 16 THEN 'AVERAGE'
ELSE 'WEAK'
END) AS CAT
FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
WHERE S.USN = IA.USN AND
SS.SSID = IA.SSID AND
SUB.SUBCODE = IA.SUBCODE AND
SUB.SEM = 6;
```

## TABLES:

1.

```
119 • select * FROM STUDENT;
```

USN	SNAME	ADDRESS	PHONE	GENDER
1BM18CS032	BHASKAR 1	BENGALURU	992329	M
1BM18CS066	SUPRIYA 1	MANGALURU	8871122	F
1BM19CS010	ABHAY	BENGALURU	990021	M
1BM19CS011	AJAY	TUMKUR	984341	M
1BM19CS025	ASMI	BENGALURU	78977	F
1BM19CS032	BHASKAR	BENGALURU	992329	M

STUDENT 17 ×

2.

```
120 • select * FROM CLASS;
```

```
121 • select * FROM CLASS;
```

```
122
```



USN	SSID
1BM19CS025	4A
1BM19CS032	4A
1BM19CS066	4B
1BM19CS010	4C
1BM19CS011	4C
1BM18CS025	6A

3.

121 • `select * FROM SEMSEC;`

122

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Result Grid   Filter Rows:

	SSID	SEM	SEC
▶	4A	4	A
	4B	4	B
	4C	4	C
	6A	6	A
	6B	6	B
	6C	6	C

4.

118 • `delete from SUBJECT;`

<

Result Grid   Filter Rows:

	SUBCODE	TITLE	SEM	CREDITS
▶	10CS81	ADA	4	4
	10CS82	DBMS	4	4
	10CS84	TFCS	6	4
	10CS85	PW	6	4
•	NULL	NULL	NULL	NULL




## 5.IAMARKS

115

116 • `SELECT * FROM IAMARKS;`

117

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Result Grid   Filter Rows:  Export:  Wrap Cell Co

	USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
▶	1BM18CS032	10CS84	6A	15	16	8	NULL
	1BM18CS032	10CS85	6A	13	14	19	NULL
	1BM18CS025	10CS84	6A	10	16	8	NULL
	1BM18CS025	10CS85	6A	20	14	19	NULL
	1BM18CS011	10CS85	6C	20	14	19	NULL

## QUERY OUTPUT:

1.

96 • `select * FROM STUDENT S JOIN CLASS C ON S.USN=C.USN AND SSID='4C';`

<							
Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:							
	USN	SNAME	ADDRESS	PHONE	GENDER	USN	SSID
▶	1BM19CS010	ABHAY	BENGALURU	990021	M	1BM19CS010	4C
	1BM19CS011	AJAY	TUMKUR	984341	M	1BM19CS011	4C

2.

98 • `SELECT SEM,SEC,GENDER,COUNT(GENDER) FROM STUDENT S JOIN CLASS C ON S.USN=C.USN JOIN SEMSEC SE ON C.SSID=SE.SSID GROUP BY GENDER,SEM,SEC ORDER BY SEM;`

<				
Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:				
	SEM	SEC	GENDER	COUNT(GENDER)
	4	B	F	1
	4	C	M	2
	6	A	M	1
	6	B	F	1
	6	C	M	2
	6	A	F	1

3.

99 • `CREATE VIEW T1 AS SELECT SUBCODE,TEST1 FROM IAMARKS WHERE USN='1BM18CS032';`  
100 • `SELECT * FROM T1;`

101 •

102

103



<		
Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:		
	SUBCODE	TEST1
▶	10CS84	15
	10CS85	13

4.

```

122
123 • SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,
124 (CASE
125 WHEN IA.TEST1 BETWEEN 17 AND 20 THEN 'OUTSTANDING'
126 WHEN IA.TEST1 BETWEEN 12 AND 16 THEN 'AVERAGE'
127 ELSE 'WEAK'
128 END) AS CAT
129 FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
130 WHERE S.USN = IA.USN AND
131 SS.SSID = IA.SSID AND
132 SUB.SUBCODE = IA.SUBCODE AND
133 SUB.SEM = 6;

```

Result Grid						
Filter Rows: <input type="text"/>						
Export:  Wrap Cell Content: 						
	USN	SNAME	ADDRESS	PHONE	GENDER	CAT
▶	1BM18CS066	SUPRIYA1	MANGALURU	8871122	F	WEAK
	1BM18CS010	ABHAY1	BENGALURU	990021	M	WEAK
	1BM18CS011	AJAY1	TUMKUR	984341	M	OUTSTANDING
	1BM18CS025	ASMI1	BENGALURU	78977	F	OUTSTANDING
	1BM18CS032	BHASKAR1	BENGALURU	992329	M	AVERAGE
	1BM18CS066	SUPRIYA1	MANGALURU	8871122	F	WEAK
	1BM18CS010	ABHAY1	BENGALURU	990021	M	WEAK

Result 16 x