

## PROGRAM 10:COLLEGE DATABASE

Consider the schema for College Database:

STUDENT(USN, SName, Address, Phone, Gender)

SEMSEC(SSID, Sem, Sec)

CLASS(USN, SSID)

SUBJECT(Subcode, Title, Sem, Credits)

IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)

Write SQL queries to

- List all the student details studying in fourth semester 'C' section.
- Compute the total number of male and female students in each semester and in each section.
- Create a view of Test1 marks of student USN '1B15CS101' in all subjects.

Table class:

USN	SSID
1RN13CS020	CSE8A
1RN13CS062	CSE8A
1RN13CS066	CSE8B
1RN13CS091	CSE8C
1RN14CS010	CSE7A
1RN14CS025	CSE7A
1RN14CS032	CSE7A
1RN15CS011	CSE4A
1RN15CS029	CSE4A
1RN15CS045	CSE4B
1RN15CS091	CSE4C
1RN16CS045	CSE3A
1RN16CS088	CSE3B
1RN16CS122	CSE3C

Table iamarks

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

 Copy

 Delete

 Export

Table semsec

SSID	SEM	SEC
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
CSE5A	5	A
CSE5B	5	B
CSE5C	5	C
CSE6A	6	A
CSE6B	6	B
CSE6C	6	C
CSE7A	7	A
CSE7B	7	B
CSE7C	7	C
CSE8A	8	A
CSE8B	8	B
CSE8C	8	C

Table student

USN	SNAME	ADDRESS	PHONE	GENDER
1RN13CS020	AKSHAY	BELAGAVI	2147483647	M
1RN13CS062	SANDHYA	BENGALURU	2147483647	F
1RN13CS066	SUPRIYA	MANGALURU	2147483647	F
1RN13CS091	TEESHA	BENGALURU	2147483647	F
1RN14CS010	ABHAY	BENGALURU	2147483647	M
1RN14CS025	ASMI	BENGALURU	2147483647	F
1RN14CS032	BHASKAR	BENGALURU	2147483647	M
1RN15CS011	AJAY	TUMKUR	2147483647	M
1RN15CS029	CHITRA	DAVANGERE	2147483647	F
1RN15CS045	JEEVA	BELLARY	2147483647	M
1RN15CS091	SANTOSH	MANGALURU	2147483647	M
1RN16CS045	ISMAIL	KALBURGI	2147483647	M
1RN16CS088	SAMEERA	SHIMOGA	2147483647	F
1RN16CS122	VINAYAKA	CHIKAMAGALUR	2147483647	M

# Table subject

Export	Import	Privileges	Operations	Triggers
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	
15CS32	ADE	3	4	
15CS33	DSA	3	4	
15CS34	CO	3	4	
15CS35	USP	3	3	
15CS36	DMS	3	3	
15CS41	M4	4	4	
15CS42	SE	4	4	
15CS43	DAA	4	4	
15CS44	MPMC	4	4	
15CS45	OOC	4	3	
15CS46	DC	4	3	

1)

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT S.*, SS.SEM, SS.SEC FROM STUDENT S, SEMSEC SS, CLASS C WHERE S.USN = C.USN AND SS.SSID = C.SSID AND SS.SEM = 4 AND SS.SEC='C'
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

USN	SNAME	ADDRESS	PHONE	GENDER	SEM	SEC
1RN15CS091	SANTOSH	MANGALURU	2147483647	M	4	C

2)

✓ Showing rows 0 - 12 (13 total, Query took 0.0007 seconds.)

```
SELECT SS.SEM, SS.SEC, S.GENDER, COUNT(S.GENDER) AS COUNT FROM STUDENT S, SEMSEC SS, CLASS C WHERE S.USN = C.USN AND SS.SSID = C.SSID GROUP BY SS.SEM, SS.SEC, S.GENDER ORDER BY SEM
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

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
8	C	F	1

3)

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0668 seconds.)

```
CREATE VIEW STU_TEST1_MARKS_VIEW AS SELECT TEST1, SUBCODE FROM IAMARKS WHERE USN = '1BI15CS101'
```

[ Edit inline ] [ Edit ] [ Create PHP code ]