

Lab 10

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3945 seconds.)

```
CREATE TABLE STUDENT ( USN VARCHAR (10) PRIMARY KEY, SNAME VARCHAR (25), ADDRESS VARCHAR (25), PHONE INT, GENDER CHAR (1))
```

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

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2554 seconds.)

```
CREATE TABLE SEMSEC ( SSID VARCHAR (5) PRIMARY KEY, SEM INT, SEC CHAR (1))
```

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

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3318 seconds.)

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

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

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2752 seconds.)

```
CREATE TABLE SUBJECT ( SUBCODE VARCHAR (8), TITLE VARCHAR (20), SEM INT, CREDITS INT, PRIMARY KEY (SUBCODE))
```























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

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.5997 seconds.)



































































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

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

















STUDENT:

		USN	SNAME	ADDRESS	PHONE	GENDER
<input type="checkbox"/>	 Edit	1RN13CS020	AKSHAY	BELAGAVI	2147483647	M
<input type="checkbox"/>	 Edit  Copy  Delete	1RN13CS062	SANDHYA	BENGALURU	2147483647	F
<input type="checkbox"/>	 Edit  Copy  Delete	1RN13CS066	SUPRIYA	MANGALURU	2147483647	F
<input type="checkbox"/>	 Edit  Copy  Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F
<input type="checkbox"/>	 Edit  Copy  Delete	1RN14CS010	ABHAY	BENGALURU	2147483647	M
<input type="checkbox"/>	 Edit  Copy  Delete	1RN14CS025	ASMI	BENGALURU	2147483647	F
<input type="checkbox"/>	 Edit  Copy  Delete	1RN14CS032	BHASKAR	BENGALURU	2147483647	M
<input type="checkbox"/>	 Edit  Copy  Delete	1RN15CS011	AJAY	TUMKUR	2147483647	M

SEMSEC:

			SSID	SEM	SEC
<input type="checkbox"/>				CSE1A	1 A
<input type="checkbox"/>				CSE2A	2 A
<input type="checkbox"/>				CSE2B	2 B
<input type="checkbox"/>				CSE2C	2 C
<input type="checkbox"/>				CSE3A	3 A
<input type="checkbox"/>				CSE3B	3 B
<input type="checkbox"/>				CSE3C	3 C
<input type="checkbox"/>				CSE4A	4 A
<input type="checkbox"/>				CSE4B	4 B
<input type="checkbox"/>				CSE4C	4 C
<input type="checkbox"/>				CSE5A	5 A
<input type="checkbox"/>				CSE5B	5 B
<input type="checkbox"/>				CSE5C	5 C
<input type="checkbox"/>				CSE6A	6 A
<input type="checkbox"/>				CSE6B	6 B
<input type="checkbox"/>				CSE6C	6 C
<input type="checkbox"/>				CSE7A	7 A
<input type="checkbox"/>				CSE7B	7 B
<input type="checkbox"/>				CSE7C	7 C
<input type="checkbox"/>				CSE8A	8 A
<input type="checkbox"/>				CSE8B	8 B
<input type="checkbox"/>				CSE8C	8 C














CLASS:

			USN	SSID
<input type="checkbox"/>			13CS020	CSE8A
<input type="checkbox"/>			1RN13CS062	CSE8A
<input type="checkbox"/>			1RN13CS066	CSE8B
<input type="checkbox"/>			1RN13CS091	CSE8C
<input type="checkbox"/>			1RN14CS010	CSE7A
<input type="checkbox"/>			1RN14CS025	CSE7A
<input type="checkbox"/>			1RN14CS032	CSE7A
<input type="checkbox"/>			1RN15CS011	CSE4A

SUBJECT:

				SUBCODE	TITLE	SEM	CREDITS
<input type="checkbox"/>				10CS71	OOAD	7	4
<input type="checkbox"/>				10CS72	ECS	7	4
<input type="checkbox"/>				10CS73	PTW	7	4
<input type="checkbox"/>				10CS74	DWDM	7	4
<input type="checkbox"/>				10CS75	JAVA	7	4
<input type="checkbox"/>				10CS76	SAN	7	4
<input type="checkbox"/>				10CS81	ACA	8	4
<input type="checkbox"/>				10CS82	SSM	8	4
<input type="checkbox"/>				10CS83	NM	8	4
<input type="checkbox"/>				10CS84	CC	8	4
<input type="checkbox"/>				10CS85	PW	8	4
<input type="checkbox"/>				15CS31	M3	3	4
<input type="checkbox"/>				15CS32	ADE	3	4
<input type="checkbox"/>				15CS33	DSA	3	4
<input type="checkbox"/>				15CS34	CO	3	4
<input type="checkbox"/>				15CS35	USP	3	3
<input type="checkbox"/>				15CS36	DMS	3	3
<input type="checkbox"/>				15CS41	M4	4	4
<input type="checkbox"/>				15CS42	SE	4	4
<input type="checkbox"/>				15CS43	DAA	4	4
<input type="checkbox"/>				15CS44	MPMC	4	4
<input type="checkbox"/>				15CS45	OOC	4	3
<input type="checkbox"/>				15CS46	DC	4	3
<input type="checkbox"/>				15CS51	ME	5	4
<input type="checkbox"/>				15CS52	CN	5	4

IAMARKS:

<div>←T→</div>				USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
<input type="checkbox"/>	 Edit	 Copy	 Delete	1RN13CS091	10CS81	CSE8C	15	16	18	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	1RN13CS091	10CS82	CSE8C	12	19	14	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	1RN13CS091	10CS83	CSE8C	19	15	20	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	1RN13CS091	10CS84	CSE8C	20	16	19	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	1RN13CS091	10CS85	CSE8C	15	15	12	NULL

- List all the student details studying in fourth semester 'A' section.

Showing rows 0 - 0 (1 total, Query took 0.0055 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='A'
```

☐ 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
1RN15CS011	AJAY	TUMKUR	2147483647	M	4	A

- Compute the total number of male and female students in each semester and in each section.

✓ Showing rows 0 - 6 (7 total, Query took 0.0590 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
4	A	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

- Create a view of Test1 marks of student USN '1RN13CS091' in all subjects.

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0478 seconds.)

```
CREATE VIEW STU_TEST1_MARKS_VIEW AS SELECT TEST1, SUBCODE FROM IAMARKS WHERE USN = '1RN13CS091'
```

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

✓ Showing rows 0 - 4 (5 total, Query took 0.0025 seconds.)

```
select * from stu_test1_marks_view
```

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

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

+ Options

	TEST1	SUBCODE
<input type="checkbox"/> Edit Copy Delete	15	10CS81
<input type="checkbox"/> Edit Copy Delete	12	10CS82
<input type="checkbox"/> Edit Copy Delete	19	10CS83
<input type="checkbox"/> Edit Copy Delete	20	10CS84
<input type="checkbox"/> Edit Copy Delete	15	10CS85

- Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2361 seconds.)

```
CREATE PROCEDURE AVG_MARKS() BEGIN DECLARE C_A INTEGER; DECLARE C_B INTEGER; DECLARE C_C INTEGER; DECLARE C_SUM INTEGER; DECLARE C_AVG INTEGER; DECLARE C_USN VARCHAR(10); DECLARE C_SUBCODE VARCHAR(8); DECLARE C_SSID VARCHAR(5); DECLARE C_IAMARKS CURSOR FOR SELECT GREATEST(TEST1,TEST2) AS A, GREATEST(TEST1,TEST3) AS B, GREATEST(TEST3,TEST2) AS C, USN, SUBCODE, SSID FROM IAMARKS WHERE FINALIA IS NULL FOR UPDATE; OPEN C_IAMARKS; LOOP FETCH C_IAMARKS INTO C_A, C_B, C_C, C_USN, C_SUBCODE, C_SSID; IF (C_A != C_B) THEN SET C_SUM=C_A+C_B; ELSE SET C_SUM=C_A+C_C; END IF; SET C_AVG=C_SUM/2; UPDATE IAMARKS SET FINALIA = C_AVG WHERE USN = C_USN AND SUBCODE = C_SUBCODE AND SSID = C_SSID; END LOOP; CLOSE C_IAMARKS; END;
```

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

- Categorize students based on the following criterion:
 If FinalIA = 17 to 20 then CAT = 'Outstanding'
 If FinalIA = 12 to 16 then CAT = 'Average'
 If FinalIA < 12 then CAT = 'Weak'
 Give these details only for 8th semester A, B, and C section students.

✔ Showing rows 0 - 4 (5 total, Query took 0.0240 seconds.)

```
SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER, (CASE WHEN IA.FINALIA BETWEEN 17 AND 20 THEN'OUTSTANDING' WHEN IA.FINALIA 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 = 8
```

☐ Profiling [\[Edit inline\]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh\]](#)

☐ Show all

Number of rows: 25 ▾

Filter rows:

Options

		USN	SNAME	ADDRESS	PHONE	GENDER	CAT		
<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK