

## LAB 10 PROGRAM

### TABLES

### CLASS

The screenshot shows the phpMyAdmin interface with the 'class' table selected in the 'collegedb' database. The table structure is as follows:

	USN	SSID
<input type="checkbox"/>	1RN13CS020	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
<input type="checkbox"/>	1RN15CS029	CSE4A
<input type="checkbox"/>	1RN15CS045	CSE4B
<input type="checkbox"/>	1RN15CS091	CSE4C
<input type="checkbox"/>	1RN16CS045	CSE3A
<input type="checkbox"/>	1RN16CS068	CSE3B

### IAMARKS

The screenshot shows the phpMyAdmin interface with the 'iamarks' table selected in the 'collegedb' database. The table structure is as follows:

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

### SEMSEC

localhost / 127.0.0.1 / collegedb

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localhost/phpmyadmin/index.php?route=/sql&server=1&db=collegedb&table=semsec&pos=0

phpMyAdmin

Server: 127.0.0.1 \* Database: collegedb \* Table: semsec

Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Recent Favorites

airline\_flightdb  
bankingdb  
bookdb  
collegedb  
class  
iamarks  
semsec  
student  
subject  
information\_schema  
insurancedb  
insurance\_db  
moviedb  
mysql  
order\_db  
performance\_schema  
phpmyadmin  
practicedb  
project\_work  
student\_facultydb  
supplierdb  
test

					SSID	SEM	SEC
<input type="checkbox"/>	Edit	Copy	Delete		CSE1A	1	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE1B	1	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE1C	1	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE2A	2	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE2B	2	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE2C	2	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE3A	3	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE3B	3	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE3C	3	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE4A	4	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE4B	4	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE4C	4	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE5A	5	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE5B	5	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE5C	5	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE6A	6	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE6B	6	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE6C	6	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE7A	7	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE7B	7	B
<input type="checkbox"/>	Edit	Copy	Delete		CSE7C	7	C
<input type="checkbox"/>	Edit	Copy	Delete		CSE8A	8	A
<input type="checkbox"/>	Edit	Copy	Delete		CSE8B	8	B

Console

Bookmarks Options History Clear

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12:43 21-06-2021

## STUDENT

localhost / 127.0.0.1 / collegedb

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localhost/phpmyadmin/index.php?route=/sql&server=1&db=collegedb&table=student&pos=0

phpMyAdmin

Server: 127.0.0.1 \* Database: collegedb \* Table: student

Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Recent Favorites

airline\_flightdb  
bankingdb  
bookdb  
collegedb  
class  
iamarks  
semsec  
student  
subject  
information\_schema  
insurancedb  
insurance\_db  
moviedb  
mysql  
order\_db  
performance\_schema  
phpmyadmin  
practicedb  
project\_work  
student\_facultydb  
supplierdb  
test

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

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

					USN	SNAME	ADDRESS	PHONE	GENDER
<input type="checkbox"/>	Edit	Copy	Delete		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
<input type="checkbox"/>	Edit	Copy	Delete		1RN15CS029	CHITRA	DAVANGERE	2147483647	F
<input type="checkbox"/>	Edit	Copy	Delete		1RN15CS045	JEEVA	BELLARY	2147483647	M
<input type="checkbox"/>	Edit	Copy	Delete		1RN15CS091	SANTOSH	MANGALURU	2147483647	M
<input type="checkbox"/>	Edit	Copy	Delete		1RN16CS045	ISMAIL	KALBURGI	2147483647	M
<input type="checkbox"/>	Edit	Copy	Delete		1RN16CS088	SAMEERA	SHIMOGA	2147483647	F
<input type="checkbox"/>	Edit	Copy	Delete		1RN16CS122	VINAYAKA	CHIKAMAGALUR	2147483647	M

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Console

Bookmarks Options History Clear

Type here to search

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## SUBJECT

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

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

Showing rows 0 - 0 (1 total. Query took 0.0020 seconds)

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

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

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

The screenshot shows the phpMyAdmin interface with a SQL query executed. The query is:

```
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
```

The result shows 12 rows. The columns are SEM, SEC, GENDER, and COUNT. The data is as follows:

SEM	SEC	GENDER	COUNT
3	A	M	1
3	B	F	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

Create a view of Test1 marks of student USN '1BI15CS101' in all subjects.

The screenshot shows the phpMyAdmin interface with a view named 'stu\_test1\_marks\_view' created. The view definition is:

```
SELECT * FROM 'stu_test1_marks_view'
```

The view contains 5 rows. The columns are TEST1 and SUBCODE. The data is as follows:

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

Categorize students based on the following criterion:

If Final IA = 17 to 20 then CAT = 'Outstanding'

If Final IA = 12 to 16 then CAT = 'Average'

If Final IA < 12 then CAT = 'Weak'

Give these details only for 8th semester A, B, and C section students.

localhost / 127.0.0.1 / collegedb | 2020 ACADEMIC CONFERENCE | +

localhost/phpmyadmin/index.php?route=/database/sql&db=collegedb

Server: 127.0.0.1 \* Database: collegedb \* Table: STUDENT

Recent Favorites

New  
airline\_flightdb  
bankingdb  
bookdb  
collegedb  
Tables  
New  
class  
iamarks  
semsec  
student  
subject  
Views  
New  
stu\_test1\_marks\_view  
information\_schema  
insurancedb  
insurance\_db  
moviedb  
mysql  
order\_db  
performance\_schema  
phpmyadmin  
practicadb  
project\_work  
student\_facultydb  
supplierdb  
test

Show query box

Showing rows 0 - 4 (5 total, Query took 0.0028 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: Search this table

+ Options

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

Check all | With selected | Edit | Copy | Delete | Export

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

Query results operations

Print | Copy to clipboard | Export | Display chart | Create view

Bookmark this SQL query

Console

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