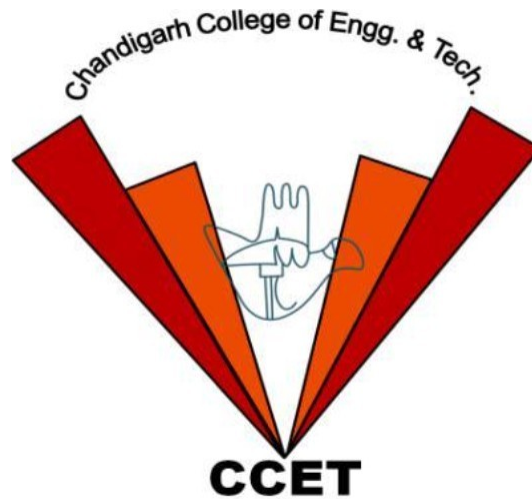


CHANDIGARH COLLEGE OF ENGINEERING AND TECHNOLOGY

(DEGREE WING)

Government Institute under Chandigarh (UT) Administration, Affiliated to Panjab
University, Chandigarh

Sector-26, Chandigarh. PIN-160019



DBMS

PRACTICAL FILE

Submitted By :

Lalit Kumar

CO20328

Submitted to :

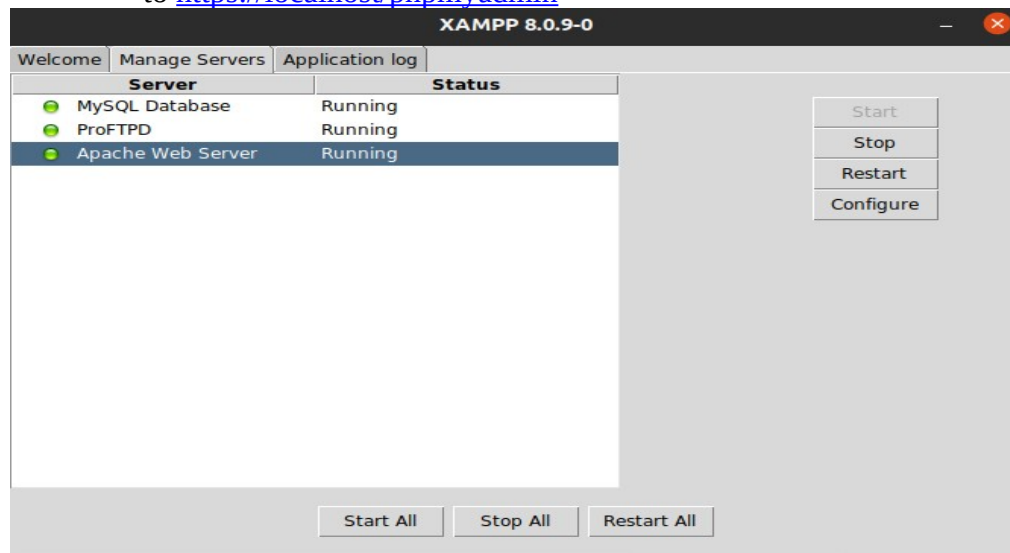
Dr.Dheerendra Singh

CSE Department

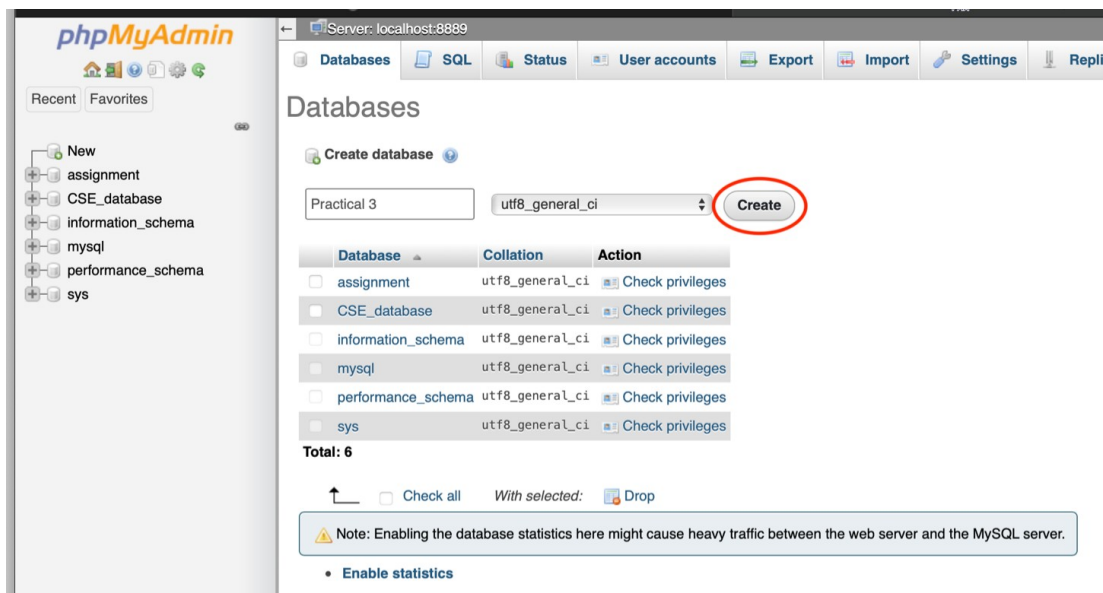
PRACTICAL-3

AIM : Data Types, Creating Tables, Creating Database, Retrieval of Rows using Select statement, Conditional retrieval of Rows.


Step 1 : Launch the xampp control panel and start apache web server and mysql database.and then go to <https://localhost/phpmyadmin>



Step 2 : Then Click on the New button and it will create a new database. Enter the desired name for the database and then click on the create button to create the database.



Step 3 : Then in the database it will show the option to CREATE TABLE. Click on the create table button and then enter the Desired name of the table and the number columns required.



Server: localhost:8889 » Database: CSE_database

Structure SQL Search Query Export Import Operations

⚠ No tables found in database.

Create table

Name: Number of columns:

Go

Step 4 : Now it will show you a list of columns and fill in the required fields as per your requirements. Enter the default values as NULL.

Table name: <input type="text" value="Mechanical"/>									
<div> <div>Add</div> <div>1</div> <div>column(s)</div> <div>Go</div> </div>									
Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A_I	Comments
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>
<input type="text"/>	INT	<input type="text"/>	None	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="text"/>

After being filled. It will Look like this

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A.I	Comments
Roll_no	VARCHAR	8	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Name	VARCHAR	21	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Father_name	VARCHAR	20	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Mother_name	VARCHAR	16	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
DOB	VARCHAR	10	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Category	VARCHAR	11	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Phone_no	BIGINT	11	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Address	VARCHAR	85	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Sem1_SGPA	VARCHAR	5	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Sem2_SGPA	VARCHAR	5	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Year1_CGPA	VARCHAR	5	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	
Sem3_SGPA	DECIMAL	3,2	NULL			<input checked="" type="checkbox"/>	---	<input type="checkbox"/>	

After filling in the information click on Save button at the bottom. It will Show you the Structure of the Table.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Roll_no	varchar(8)	utf8_general_ci	Yes	NULL				Change Drop More
2	Name	varchar(21)	utf8_general_ci	Yes	NULL				Change Drop More
3	Father_name	varchar(20)	utf8_general_ci	Yes	NULL				Change Drop More
4	Mother_name	varchar(16)	utf8_general_ci	Yes	NULL				Change Drop More
5	DOB	varchar(10)	utf8_general_ci	Yes	NULL				Change Drop More
6	Category	varchar(11)	utf8_general_ci	Yes	NULL				Change Drop More
7	Phone_no	bigint(11)		Yes	NULL				Change Drop More
8	Address	varchar(85)	utf8_general_ci	Yes	NULL				Change Drop More
9	Sem1_SGPA	varchar(5)	utf8_general_ci	Yes	NULL				Change Drop More
10	Sem2_SGPA	varchar(5)	utf8_general_ci	Yes	NULL				Change Drop More
11	Year1_CGPA	varchar(5)	utf8_general_ci	Yes	NULL				Change Drop More
12	Sem3_SGPA	decimal(3,2)		Yes	NULL				Change Drop More

Step 5 : After that Click on the Import button on the top menu bar. It will take you to the Import page. There it will ask you to choose a file. Now Import your Excel file which should be saved in .ods (Open Document Spreadsheet) format. Choose the .ods file and check the box which says that the first line contains the Table Column Names. The rest of the boxes are already ticked by default and leave them checked. After that click on Go Button which will import the file.

Format:

OpenDocument Spreadsheet

Format-specific options:

- ☒ The first line of the file contains the table column names (if this is unchecked, the first line will become part of the data)
- ☒ Do not import empty rows
- ☒ Import percentages as proper decimals (ex. 12.00% to .12)
- ☒ Import currencies (ex. \$5.00 to 5.00)

Go

Server: localhost:8889 » Database: Practical 3

StructureSQLSearchQueryExportImportOperationsPrivilegesRoutinesEventsTriggersDesigner

✔ Import has been successfully finished, 2 queries executed.

The following structures have either been created or altered. Here you can:

- View a structure's contents by clicking on its name.
- Change any of its settings by clicking the corresponding "Options" link.
- Edit structure by following the "Structure" link.

Practical 3 (Options)

CSE (Structure) (Options)

(3rd YEAR DATABASE(CSE).ods)

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0208 seconds.)

Create TABLE IF NOT EXISTS `Practical 3`.`CSE` (`S No` int(2), `Roll No.` varchar(9), `Name` varchar(22), `Father's Name` varchar(21), `Mother's Name` varchar(19), `Category` varchar(7), `Date of birth` varchar(10), `Phone Number` bigint(10), `Address` varchar(57), `Sem1 SGPA` decimal(3,2), `Sem2 SGPA` decimal(3,2), `1st Year CGPA` decimal(3,2), `Sem3 SGPA` decimal(3,2), `N` varchar(10), `O` varchar(10), `P` varchar(10), `Q` varchar(10), `R` varchar(10), `S` varchar(10), `T` varchar(10), `U` varchar(10), `V` varchar(10), `W` varchar(10), `X` varchar(10), `Y` varchar(10), `Z` varchar(10))
DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;

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

✔ 75 rows inserted. (Query took 0.0015 seconds.)

INSERT INTO `Practical 3`.`CSE` (`S No`,`Roll No`,`Name`,`Father's Name`,`Mother's Name`,`Category`,`Date of birth`,`Phone Number`,`Address`,`Sem1 SGPA`,`Sem2 SGPA`,`1st Year CGPA`,`Sem3 SGPA`,`N`,`O`,`P`,`Q`,`R`,`S`,`T`,`U`,`V`,`W`,`X`,`Y`,`Z`) VALUES (1,'C019301','Aanchal Bhatti','Kuldip Singh','NULL','SC',NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NUL
L,NULL,NULL,NULL,NULL,NULL,NULL,NULL,(2,'C019302','Abhinav Puri','Raajiv Puri','Shailu Puri','General','6/22/2008',9877390132,'#2B, Phase-3A, Mohali',6.57,8.2,7.42,
9.05,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL),(3,'C019303','Abhinav Puri','Arvind Puri','Rekha Rani','General','7/16/2001',7988310853,'#57B, Shakti
Nagar',6.52,8.52,7.56,8.86,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL),(4,'C019304','Abhishek Goyal','Raman Kumar Goyal','Anju Goyal','General',
'10/5/2001',...);

[Edit]

phpMyAdmin

Server: localhost:8889 Database: Practical 3 Table: CSE

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 24 (75 total, Query took 0.0003 seconds.)

SELECT * FROM `CSE`

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

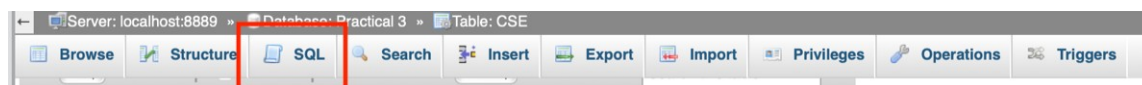
1 > >> Show all Number of rows: 25 Filter rows: Search this table

+ Options

S No	Roll No.	Name	Father's Name	Mother's Name	Category	Date of birth	Phone Number	Address	Sem1 SGPA	Sem2 SGPA	1st Year CGPA	Sem3 SGPA
1	CO19301	Aanchal Bhatti	Kuldip Singh	NULL	SC	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2	CO19302	Abhinav Puri	Rajiv Puri	Shallu Puri	General	6/22/2000	9877390122	#28, Phase-3A, Mohali	6.57	8.20	7.42	9.05
3	CO19303	Abhinav Puri	Arvind Puri	Rekha Rani	General	7/16/2001	7988310853	#570, Shakti Nagar	6.52	8.52	7.56	8.86
4	CO19304	Abhishek Goyal	Raman Kumar Goyal	Anju Goyal	General	10/5/2001	7340746486	B10-101 Nirmal Chayya Towers, VIP Road, Zirakpur	7.09	8.48	7.81	9.09
5	CO19305	Abhishek Sharma	Shiv Kumar Sharma	Kiran Sharma	General	8/11/2001	7347448390	#402/B-12 Nirmal Chhaya Towers, VIP Road, Zirakpur...	8.22	9.10	8.60	9.50
6	CO19306	Akul Gaiind	Sanjeev Gaiind	NULL	General	NULL	NULL	NULL	NULL	NULL	NULL	NULL
7	CO19307	Aman	Mahender Singh	Rekha Devi	General	5/11/2000	NULL	NULL	7.39	7.96	7.96	8.01
8	CO19308	Aman Bali	Rajesh Kumar Bali	Manjit Kaur	SC	6/3/2001	NULL	NULL	6.09	7.00	6.54	7.21
9	CO19309	Aman Tangri	Pradeep Kumar Tangri	NULL	General	NULL	NULL	NULL	NULL	NULL	NULL	NULL
10	CO19310	Anisha	Mahendra Kumar Das	Asha Das	SC	10/3/2001	6280376720	#195A, Urban Vatika, Zirakpur	6.30	8.32	7.35	8.45
11	CO19311	Ankit Gupta	Vijay Kumar Gupta	Rachna Gupta	Gen-EWS	7/6/2001	7986750357	#1146, Sector-4 Derabassi, SAS Nagar, Mohali	8.09	9.24	8.69	9.23
12	CO19312	Anmol	Joginder Singh	Meena Kumari	SC	6/3/2001	6283837763	#1131C, Sector-46B, Chandigarh	7.70	9.12	8.44	9.36
13	CO19313	Anurag Bansal	Sandeep Bansal	Monika Bansal	General	11/3/2001	9814502568	#1608, Sector-44B, Chandigarh	7.39	8.96	8.21	9.27
14	CO19314	Anjun Gupta	Kamal Gupta	NULL	General	NULL	NULL	NULL	NULL	NULL	NULL	NULL
15	CO19315	Arshit Aggarwal	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
16	CO19316	Aryan Sawhney	Anuj Kumar Sawhney	NULL	General	NULL	NULL	NULL	NULL	NULL	NULL	NULL
17	CO19317	Ashish Kanwat	Ramesh Chand	Prem Devi	ST	3/20/2002	9352898180	#1394a, Sector-41-b, A g Colony, Chandigarh	6.78	7.92	7.38	8.27
18	CO19318	Ashishraj Kalkhandey	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Console

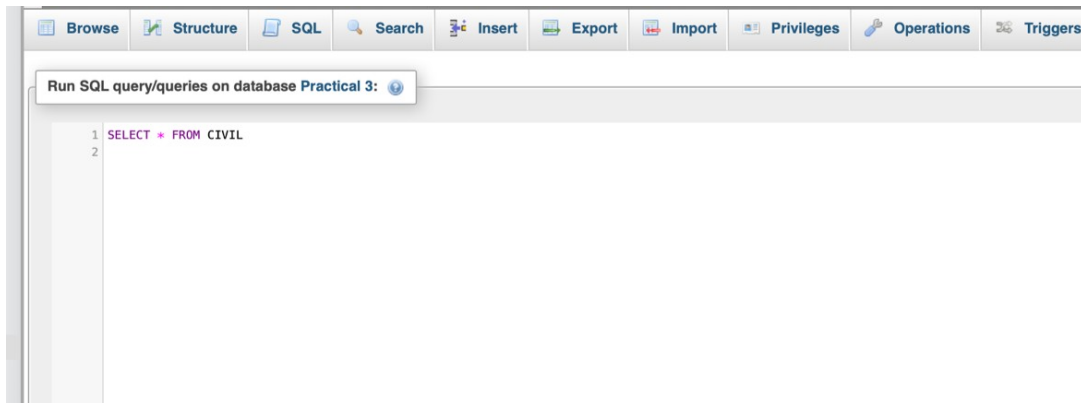
Step 7 : You can add more tables to the database by repeating steps 3 to 6 again. After all the required tables have been imported. You can perform queries on the tables by clicking on the SQL button on the top menu bar.



Step 8 : Now to perform queries on the tables you can type in the SQL queries in the box that shows up and after you are done writing the query, click on the GO button on the bottom right to perform the written query. It will show you the rows and columns resulting from the query.

- Now we will perform some queries and see their results.
- The queries are being performed on the 3rd Year Database.

Query 1 : To Find all the information of all students in the CIVIL branch.



Result :

Showing rows 0 - 2 (3 total, Query took 0.0001 seconds.)

`SELECT * FROM CIVIL;`

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

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

Roll_no	Name	Father_name	Mother_name	DOB	Category	Phone_no	Address	Sem1_SGPA	Sem2_SGPA	Year1_CGPA	Sem3_SGPA
CO19214	Deepak Kumar	Khem Singh Bisht	Champa Devi	24/9/2000	General	9914154465	#835-C,small flat Dhanas	7.09	7.41	7.25	7.75
CO19239	ROOPESH	Jai Parshad	Vijay Luxmi	4/2/2002	General	7986520186	Sector 20 B CHANDIGARH	7.22	8.26	7.74	8.52
LOO19277	Sunidhi Dhiman	Rajender Kumar Dhiman	Anita Rani Dhiman	7/2/2000	OBC	9017502161	Abhinandan house, pragati vihar, kalka road , Pinj..	NULL	NULL	NULL	8.83

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Query 2 : To find all Students in CSE branch that have CGPA of Year 1 greater than 9.00.

Run SQL query/queries on database **Practical 3:**

```
1 SELECT Roll_no,Name FROM CSE WHERE Year1_CGPA >9.00
2 |
```

Clear

Format

Get auto-saved query

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
SELECT Roll_no,Name FROM CSE WHERE Year1_CGPA >9.00;
```

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

Show all

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

+ Options

Roll_no	Name
CO19328	Himanshu Setia
CO19335	Kriti Aggarwal
CO19357	Sehajveer Singh

Show all

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

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Query 3 : To find Roll Number and Name of Students who have Year 1 CGPA greater than 7.00 but less than 9.00

