

Name: Vivek Kumar Ahirwar

Scholar No: 191112419

Department: CSE

Section:3

Semester: 4th

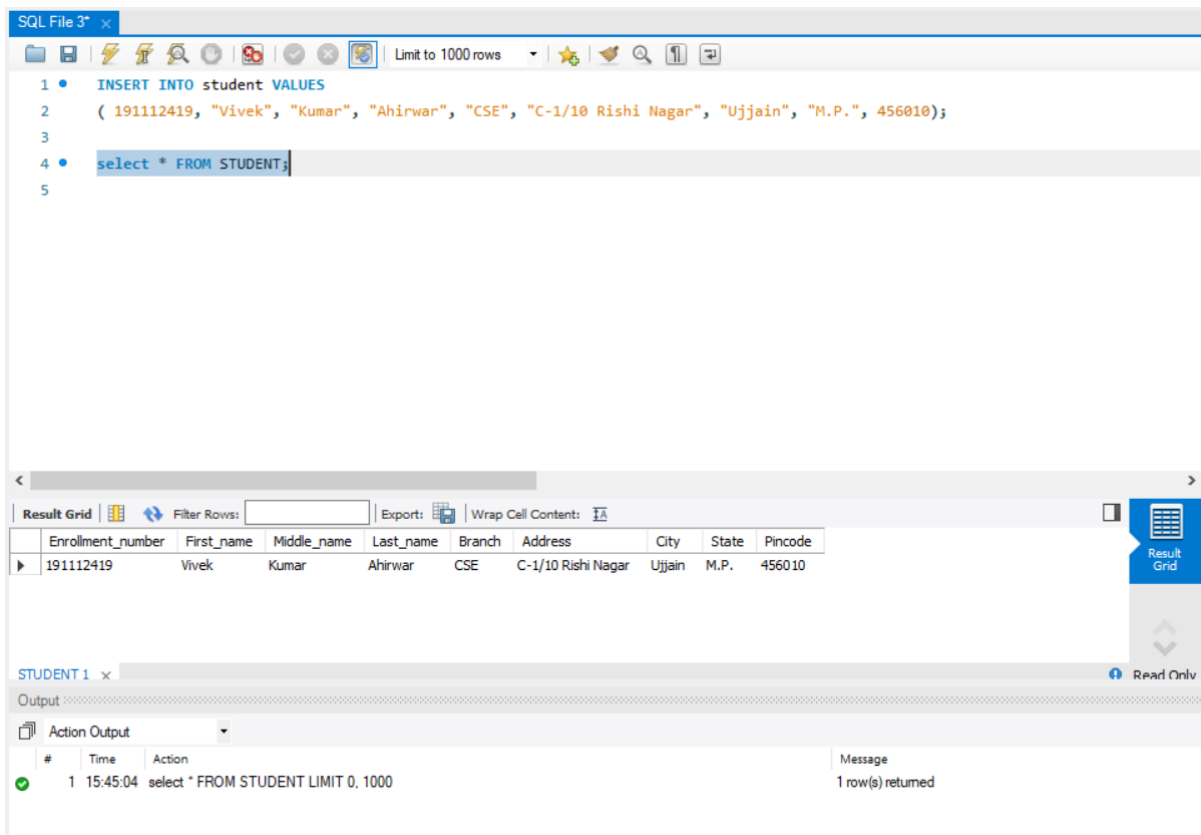
Subject: DBMS Lab

Date: 18/01/2020

Subject	DBMS LAB	Session: Jan 2021
Sub. Code:	CSE-227	Semester: IV (CSE)
Name of Teacher	Dr. Sweta Jain, & Dr. Nikhil Kumar Singh	

DBMS: LAB-ASSIGNMENT 2

Prog2: Insert approximate 20 recode of distinct student of different (CSE, EC, ME and CE) branch and city (Bhopal, Jabalpur, Indore, Delhi and etc) , address, state (accordingly)and pin code (accordingly).



The screenshot shows a SQL File 3 window with the following SQL code:

```
1 • INSERT INTO student VALUES
2 ( 191112419, "Vivek", "Kumar", "Ahirwar", "CSE", "C-1/10 Rishi Nagar", "Ujjain", "M.P.", 456010);
3
4 • select * FROM STUDENT;
5
```

The Result Grid shows the following data:

Enrollment_number	First_name	Middle_name	Last_name	Branch	Address	City	State	Pincode
191112419	Vivek	Kumar	Ahirwar	CSE	C-1/10 Rishi Nagar	Ujjain	M.P.	456010

The Output section shows the following message:

```
1 15:45:04 select * FROM STUDENT LIMIT 0, 1000
Message
1 row(s) returned
```

```
SQL File 3*
Limit to 1000 rows

6 • INSERT INTO student VALUES
7 (191112251, "Ayush", "Singh", "Patel", "CSE", "Ghantaghar", "Khandwa", "M.P.", 450001 ),
8 (191112450, "Yuvraj", "Singh", "Rathore", "CSE", "Jethari", "Anuppur", "M.P.", 484224),
9 (191112053, "Uday", "", "Chaturvedi", "CSE", "B-133 Chirahula Colony", "REWA", "M.P.", 486001 ),
10 (191112341, "Priya", "", "Gupta", "CSE", "Bichhiya", "Rewa", "M.P.", 486001 ),
11 (191112024, "Bhushan", "Singh", "Sharma", "CSE", "MPNagar", "Bhopal", "M.P.", 462004),
12 (191112423, "Ankit", "", "Sharma", "CSE", "Ridhi Sidhi Nagar", "Kota", "Rajasthan", 324008),
13 (191112202, "Amit", "", "Rajak", "CSE", "Ram Nagar", "Vidhisha", "M.P.", 464001),
14 (191114035, "Karuna", "", "Sharma", "ECE", "A P Sabha", "Lucknow", "U.P.", 226003 ),
15 (191114001, "Mahesh", "Kumar", "Saran", "ECE", "TTNagar", "Bhopal", "M.P.", 462001),
16 (191114002, "Rajat", "", "Meena", "ECE", "New City", "Jabalpur", "M.P.", 482001),
17 (191114003, "Dilip", "Kumar", "Dole", "ECE", "Vijay Nagar", "Balaghat", "M.P.", 462004),
18 (191114004, "Pranav", "", "Gupta", "ECE", "Bangali Mohalla", "Indore", "M.P.", 451010);
19 • select * FROM STUDENT;
20
21 • INSERT INTO student VALUES
22 ( 191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop", "Vidisha", "M.P.", 464001 ),
23 ( 191113054, "Sandeep", "", "Shukla", "Electrical", "Near global institute", "Jabalpur", "M.P.", 482001 ),
24 ( 191116043, "Abhishek", "", "Dwivedi", "Mechanical", "Vijay Nagar", "Indore", "M.P.", 452010 ),
25 ( 191113058, "Vijay", "Pratap", "Singh", "Electrical", "Bhawarkua", "Indore", "M.P.", 452014),
26 ( 191117001, "Anushka", "", "Pandey", "Chemical", "C-67 sambhav nagar", "Surat", "Gujarat", 335009 ),
27 ( 191113012, "Divya", "", "Tiwari", "Electrical", "C A Park", "Allahabad", "U.P.", 211001 ),
28 ( 191116074, "Krishna", "Kumar", "Shrivastava", "Mechanical", "A N L Colony", "Lucknow", "U.P.", 226001 );
29 • select * FROM STUDENT;
```

Result Grid									
Filter Rows: <input type="text"/> Export: <input type="button" value=""/> Wrap Cell Content: <input type="checkbox"/>									
	Enrollment_number	First_name	Middle_name	Last_name	Branch	Address	City	State	Pincode
▶	191112419	Vivek	Kumar	Ahirwar	CSE	C-1/10 Rishi Nagar	Ujjain	M.P.	456010
	191112251	Ayush	Singh	Patel	CSE	Ghantaghar	Khandwa	M.P.	450001
	191112450	Yuvraj	Singh	Rathore	CSE	Jethari	Anuppur	M.P.	484224
	191112053	Uday		Chaturvedi	CSE	B-133 Chirahula Colony	REWA	M.P.	486001
	191112341	Priya		Gupta	CSE	Bichhiya	Rewa	M.P.	486001
	191112024	Bhushan	Singh	Sharma	CSE	MPNagar	Bhopal	M.P.	462004
	191112423	Ankit		Sharma	CSE	Ridhi Sidhi Nagar	Kota	Rajasthan	324008
	191112202	Amit		Rajak	CSE	Ram Nagar	Vidhisha	M.P.	464001
	191114035	Karuna		Sharma	ECE	A P Sabha	Lucknow	U.P.	226003
	191114001	Mahesh	Kumar	Saran	ECE	TTNagar	Bhopal	M.P.	462001
	191114002	Rajat		Meena	ECE	New City	Jabalpur	M.P.	482001
	191114003	Dilip	Kumar	Dole	ECE	Vijay Nagar	Balaghat	M.P.	462004
	191114004	Pranav		Gupta	ECE	Bangali Mohalla	Indore	M.P.	451010
	191116042	Anurag	Prasad	Pandey	Mechanical	Near Sanchi stoop	Vidisha	M.P.	464001
	191113054	Sandeep		Shukla	Electrical	Near global institute	Jabalpur	M.P.	482001
	191116043	Abhishek		Dwivedi	Mechanical	Vijay Nagar	Indore	M.P.	452010
	191113058	Vijay	Pratap	Singh	Electrical	Bhawarkua	Indore	M.P.	452014
	191117001	Anushka		Pandey	Chemical	C-67 sambhav nagar	Surat	Gujarat	335009
	191113012	Divya		Tiwari	Electrical	C A Park	Allahabad	U.P.	211001
	191116074	Krishna	Kumar	Shrivastava	Mechanical	A N L Colony	Lucknow	U.P.	226001

STUDENT 4

Output			
Action Output			
#	Time	Action	Message
1	16:31:07	select * FROM STUDENT LIMIT 0, 1000	1 row(s) returned
2	16:31:14	INSERT INTO student VALUES (191112251, "Ayush", "Singh", "Patel", "CSE", "Ghantaghar", "Khandwa", "M.P.", 450001), (191112450, "Yuvraj", "Singh", "Rathore", "CSE", "Jethari", "Anuppur", "M.P.", 484224), (191112053, "Uday", "", "Chaturvedi", "CSE", "B-133 Chirahula Colony", "REWA", "M.P.", 486001), (191112341, "Priya", "", "Gupta", "CSE", "Bichhiya", "Rewa", "M.P.", 486001), (191112024, "Bhushan", "Singh", "Sharma", "CSE", "MPNagar", "Bhopal", "M.P.", 462004), (191112423, "Ankit", "", "Sharma", "CSE", "Ridhi Sidhi Nagar", "Kota", "Rajasthan", 324008), (191112202, "Amit", "", "Rajak", "CSE", "Ram Nagar", "Vidhisha", "M.P.", 464001), (191114035, "Karuna", "", "Sharma", "ECE", "A P Sabha", "Lucknow", "U.P.", 226003), (191114001, "Mahesh", "Kumar", "Saran", "ECE", "TTNagar", "Bhopal", "M.P.", 462001), (191114002, "Rajat", "", "Meena", "ECE", "New City", "Jabalpur", "M.P.", 482001), (191114003, "Dilip", "Kumar", "Dole", "ECE", "Vijay Nagar", "Balaghat", "M.P.", 462004), (191114004, "Pranav", "", "Gupta", "ECE", "Bangali Mohalla", "Indore", "M.P.", 451010), (191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop", "Vidisha", "M.P.", 464001), (191113054, "Sandeep", "", "Shukla", "Electrical", "Near global institute", "Jabalpur", "M.P.", 482001), (191116043, "Abhishek", "", "Dwivedi", "Mechanical", "Vijay Nagar", "Indore", "M.P.", 452010), (191113058, "Vijay", "Pratap", "Singh", "Electrical", "Bhawarkua", "Indore", "M.P.", 452014), (191117001, "Anushka", "", "Pandey", "Chemical", "C-67 sambhav nagar", "Surat", "Gujarat", 335009), (191113012, "Divya", "", "Tiwari", "Electrical", "C A Park", "Allahabad", "U.P.", 211001), (191116074, "Krishna", "Kumar", "Shrivastava", "Mechanical", "A N L Colony", "Lucknow", "U.P.", 226001);	12 row(s) affected Records: 12 Duplicates: 0 Warnings: 0
3	16:31:18	select * FROM STUDENT LIMIT 0, 1000	13 row(s) returned
4	16:41:12	INSERT INTO student VALUES (191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop", "Vidisha", "M.P.", 464001), (191113054, "Sandeep", "", "Shukla", "Electrical", "Near global institute", "Jabalpur", "M.P.", 482001), (191116043, "Abhishek", "", "Dwivedi", "Mechanical", "Vijay Nagar", "Indore", "M.P.", 452010), (191113058, "Vijay", "Pratap", "Singh", "Electrical", "Bhawarkua", "Indore", "M.P.", 452014), (191117001, "Anushka", "", "Pandey", "Chemical", "C-67 sambhav nagar", "Surat", "Gujarat", 335009), (191113012, "Divya", "", "Tiwari", "Electrical", "C A Park", "Allahabad", "U.P.", 211001), (191116074, "Krishna", "Kumar", "Shrivastava", "Mechanical", "A N L Colony", "Lucknow", "U.P.", 226001);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0
5	16:41:30	select * FROM STUDENT LIMIT 0, 1000	20 row(s) returned
6	16:43:33	select * FROM STUDENT LIMIT 0, 1000	20 row(s) returned

Prog.3: Create one table as 'Rolllist' with reference of student class

Student

Enrollment number	Int(20)
First_name	Varchar(20)
Middle_name	Varchar(20)
Last_name	Varchar(20)
Branch	Varchar(20)
Address	Varchar(40)
City	Varchar(20)
State	Varchar(20)
Pincode	Int(20)

Rolllist

Enrollment number	Int(20)
First_name	Varchar(20)
Middle_name	Varchar(20)
Last_name	Varchar(20)

MySQL Workbench

Navigator

SCHEMAS

Filter objects

191112419

Tables

rolllist

Columns

Enrollment_number

First_name

Middle_name

Last_name

Indexes

Foreign Keys

student

Triggers

Views

Stored Procedures

Functions

sys

world

SQL File 1

```
22 ( 191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop", "Vidisha", "M.P.", 464001 ),
23 ( 191116045, "Sandeep", "", "Shukla", "Electrical", "Near global institute", "Jabalpur", "M.P.", 482001 ),
24 ( 191116043, "Abhishek", "", "Divedi", "Mechanical", "Vijay Nagar", "Indore", "M.P.", 452004 ),
25 ( 191116056, "Vijay", "Pratap", "Singh", "Electrical", "Bhawarkua", "Indore", "M.P.", 452004 ),
26 ( 191117001, "Anushka", "", "Pandey", "Chemical", "C-67 sambhav nagar", "Suret", "Gujarat", 315009 ),
27 ( 191113012, "Divya", "", "Iisari", "Electrical", "C A Park", "Allahabad", "U.P.", 211001 ),
28 ( 191116074, "Krishta", "Kumar", "Shrivastava", "Mechanical", "A N L Colony", "Lucknow", "U.P.", 226001 );
29 select * FROM STUDENT;
30
31 create table rolllist
32 as select Enrollment_number, First_name, Middle_name, Last_name from student;
33
34 describe Rolllist;
35
36
```

Result Grid

Field	Type	Null	Key	Default	Extra
Enrollment_number	int	YES			
First_name	varchar(20)	YES			
Middle_name	varchar(20)	YES			
Last_name	varchar(20)	YES			

Table: rolllist

Columns:

Enrollment_number int

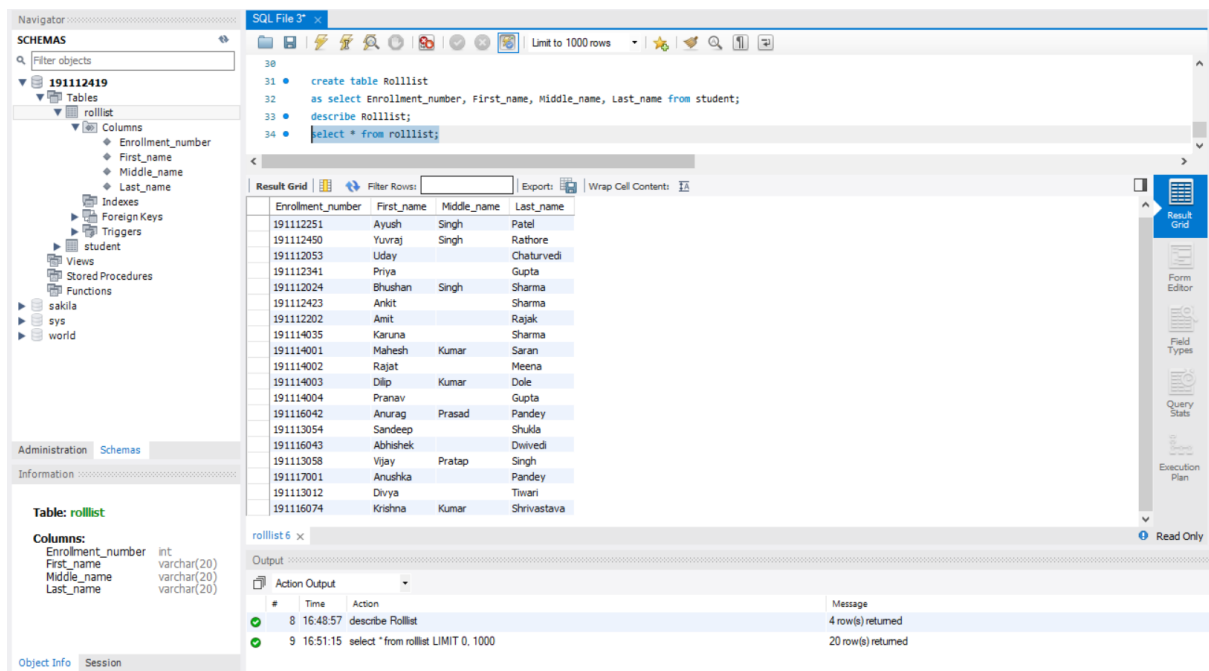
First_name varchar(20)

Middle_name varchar(20)

Last_name varchar(20)

Output

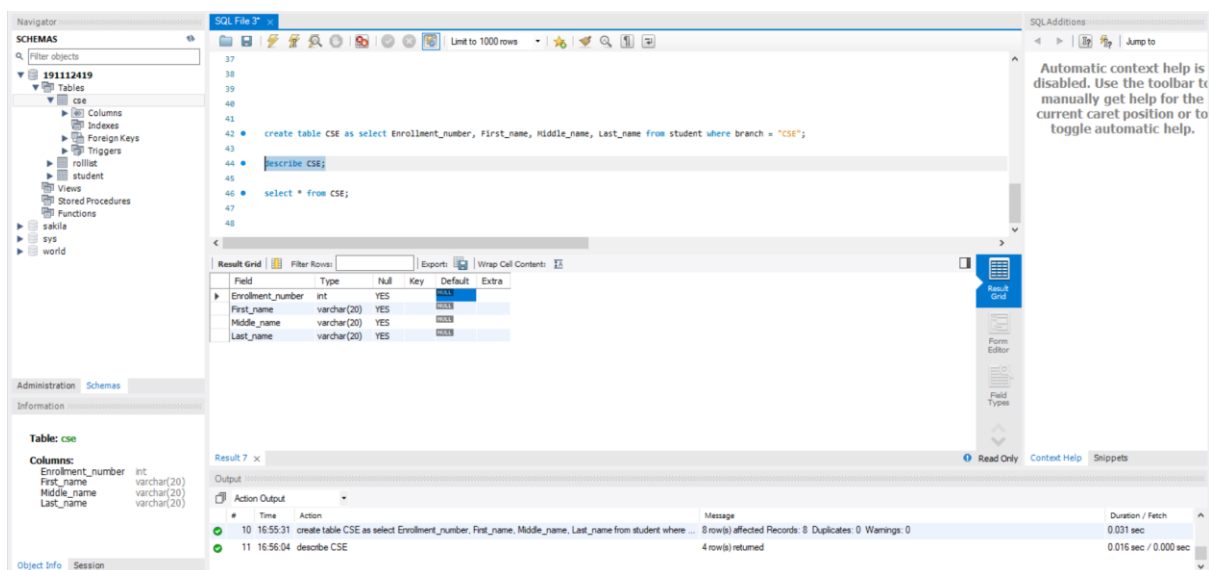
#	Time	Action	Message	Duration / Fetch
3	16:31:18	select * FROM STUDENT LIMIT 0.1000	13 row(s) returned	0.000 sec / 0.000 sec
4	16:41:12	INSERT INTO student VALUES (191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop", "Vidisha", "M.P.", 464001);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.000 sec
5	16:41:30	select * FROM STUDENT LIMIT 0.1000	20 row(s) returned	0.000 sec / 0.000 sec
6	16:43:33	select * FROM STUDENT LIMIT 0.1000	20 row(s) returned	0.000 sec / 0.000 sec
7	16:48:17	create table Rolllist as select Enrollment_number, First_name, Middle_name, Last_name from student	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.078 sec
8	16:48:57	describe Rolllist	4 row(s) returned	0.016 sec / 0.000 sec

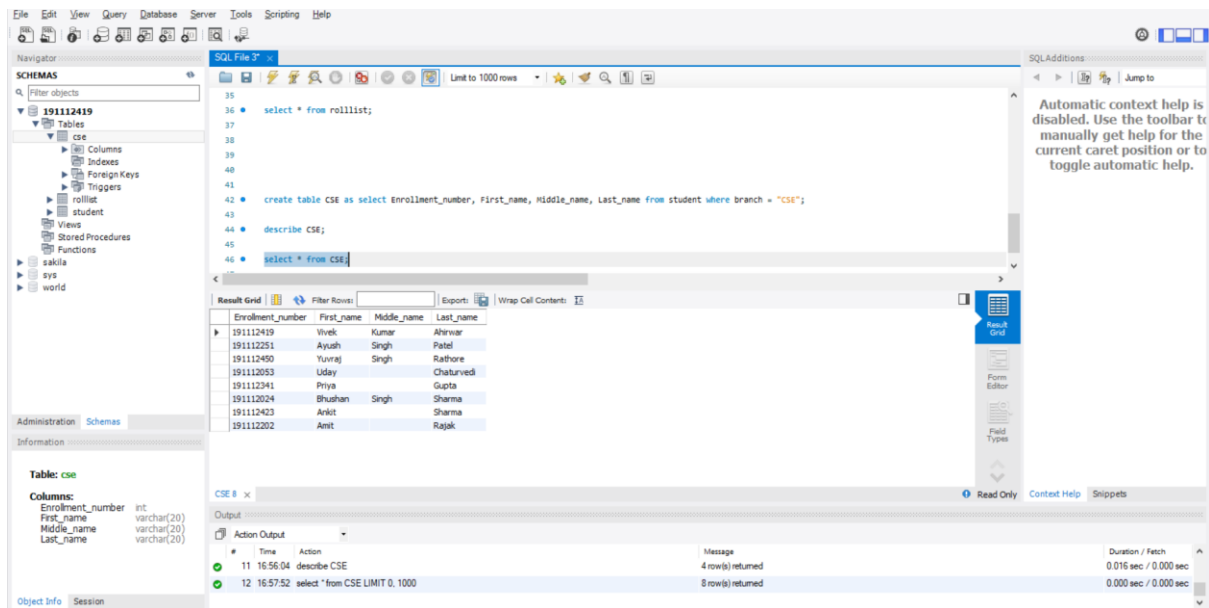


Prog.4: Create one table as 'CSE' with reference of student class having record of all student of CSE branch as

CSE

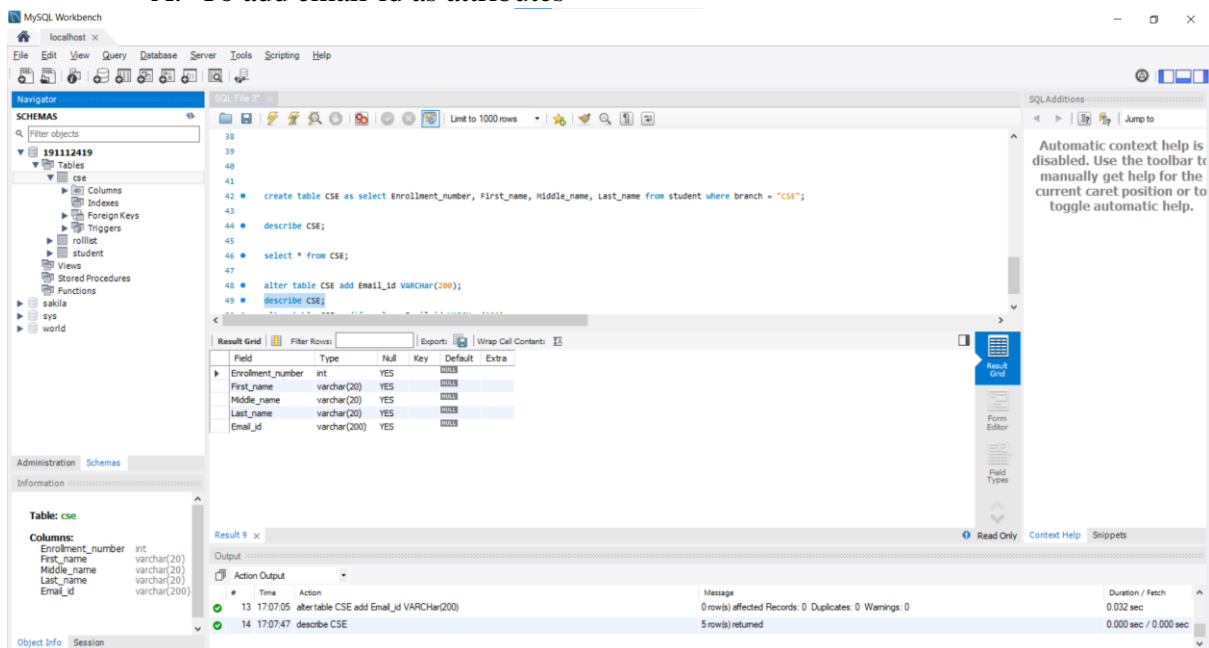
Enrollment number	Int(20)
First_name	Varchar(20)
Middle_name	Varchar(20)
Last_name	Varchar(20)





Prog.4: Alter table 'CSE' to

A. To add email-id as attributes



B. To modify email-id datatype

The first screenshot shows the MySQL Workbench interface with the following SQL script in the editor:

```
40  
41  
42 create table CSE as select Enrollment_number, First_name, Middle_name, Last_name from student where branch = "CSE";  
43  
44 describe CSE;  
45  
46 select * from CSE;  
47  
48 alter table CSE add Email_id VARCHAR(200);  
49 describe CSE;  
50 alter table CSE modify column Email_id VARCHAR(250);  
51 describe CSE;
```

The Result Grid shows the structure of the CSE table:

Field	Type	Null	Key	Default	Extra
Enrollment_number	int	YES			
First_name	varchar(20)	YES			
Middle_name	varchar(20)	YES			
Last_name	varchar(20)	YES			
Email_id	varchar(250)	YES			

The second screenshot shows the same interface after executing the script. The SQL script is now:

```
43 describe CSE;  
44  
45 select * from CSE;  
46  
47 alter table CSE add Email_id VARCHAR(200);  
48 describe CSE;  
49 alter table CSE modify column Email_id VARCHAR(250);  
50 describe CSE;  
51  
52 select * from CSE;  
53  
54
```

The Result Grid shows the data from the CSE table:

Enrollment_number	First_name	Middle_name	Last_name	Email_id
191112419	Vivek	Kumar	Ahmar	
191112251	Ayuth	Singh	Patel	
191112450	Yunraj	Singh	Rathore	
191112053	Uday	Singh	Chaturvedi	
191112341	Priya		Gupta	
191112024	Bhushan	Singh	Sharma	
191112423	Ankit		Sharma	
191112202	Amit		Rajak	

The Action Output shows the execution of the ALTER TABLE statement:

#	Time	Action	Message	Duration / Fetch
16	17:08:49	alter table CSE modify column Email_id VARCHAR(250)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
17	17:08:58	describe CSE	5 row(s) returned	0.000 sec / 0.000 sec

C. Drop the attribute email-id

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
43 describe CSE;
44
45 select * from CSE;
46
47
48 alter table CSE add Email_id VARCHAR(200);
49 describe CSE;
50 alter table CSE modify column Email_id VARCHAR(250);
51 describe CSE;
52 select * from CSE;
53 alter table CSE drop column Email_id;
54 describe CSE;
```

The 'Result Grid' shows the structure of the 'CSE' table:

Field	Type	Null	Key	Default	Extra
Enrollment_number	int	YES			
First_name	varchar(20)	YES			
Middle_name	varchar(20)	YES			
Last_name	varchar(20)	YES			

The 'Action Output' pane shows the execution of the queries:

#	Time	Action	Message	Duration / Fetch
18	17:12:35	alter table CSE drop column Email_id	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
19	17:12:45	describe CSE	4 row(s) returned	0.000 sec / 0.000 sec

Prog.5: Delete all the record of table 'CSE'

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
45 select * from CSE;
46
47
48 alter table CSE add Email_id VARCHAR(200);
49 describe CSE;
50 alter table CSE modify column Email_id VARCHAR(250);
51 describe CSE;
52 select * from CSE;
53 alter table CSE drop column Email_id;
54 describe CSE;
55 truncate table CSE;
56 select * from CSE;
```

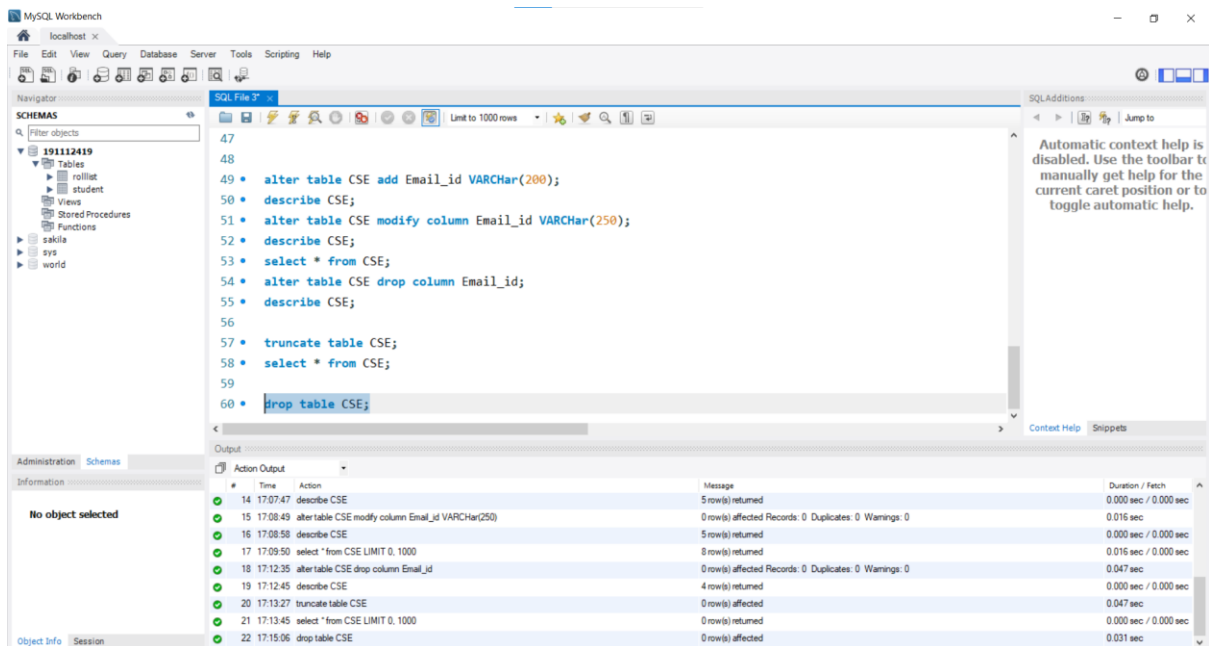
The 'Result Grid' shows the structure of the 'CSE' table:

Field	Type	Null	Key	Default	Extra
Enrollment_number	int	YES			
First_name	varchar(20)	YES			
Middle_name	varchar(20)	YES			
Last_name	varchar(20)	YES			

The 'Action Output' pane shows the execution of the queries:

#	Time	Action	Message	Duration / Fetch
20	17:13:27	truncate table CSE	0 row(s) affected	0.047 sec
21	17:13:45	select * from CSE LIMIT 0.1000	0 row(s) returned	0.000 sec / 0.000 sec

Prog6: Delete the structure of whole table 'CSE'



All SQL Commands of the assignment.

```
INSERT INTO student VALUES
```

```
(191112419, "Vivek", "Kumar", "Ahirwar", "CSE", "C-1/10 Rishi Nagar",  
"Ujjain", "M.P.", 456010);
```

```
select * FROM STUDENT;
```

```
INSERT INTO student VALUES
```

```
(191112251, "Ayush", "Singh", "Patel", "CSE", "Ghantaghar", "Khandwa",  
"M.P.", 450001 ),
```

```
(191112450, "Yuvraj", "Singh", "Rathore", "CSE", "Jethari", "Anuppur",  
"M.P.", 484224),
```

```
(191112053, "Uday", "", "Chaturvedi", "CSE", "B-133 Chirahula Colony",  
"REWA", "M.P.", 486001 ),
```

```
(191112341, "Priya", "", "Gupta", "CSE", "Bichhiya", "Rewa", "M.P.", 486001  
) ,
```

```
(191112024, "Bhushan", "Singh", "Sharma", "CSE", "MPNagar", "Bhopal",  
"M.P.", 462004),
```

```
(191112423, "Ankit", "", "Sharma", "CSE", "Ridhi Sidhi Nagar", "Kota",  
"Rajasthan", 324008),
```

```
(191112202, "Amit", "", "Rajak", "CSE", "Ram Nagar", "Vidhisha", "M.P.",  
464001),
```



```
(191114035, "Karuna", "", "Sharma", "ECE", "A P Sabha", "Lucknow", "U.P.",  
226003 ),
```

```
(191114001, "Mahesh", "Kumar", "Saran", "ECE", "TTNagar", "Bhopal", "M.P.",  
462001),
```

```
(191114002, "Rajat", "", "Meena", "ECE", "New City", "Jabalpur", "M.P.",  
482001),
```

```
(191114003, "Dilip", "Kumar", "Dole", "ECE", "Vijay Nagar", "Balaghat",  
"M.P.", 462004),
```

```
(191114004, "Pranav", "", "Gupta", "ECE", "Bangali Mohalla", "Indore",  
"M.P.", 451010);
```

```
select * FROM STUDENT;
```

```
INSERT INTO student VALUES
```

```
( 191116042, "Anurag", "Prasad", "Pandey", "Mechanical", "Near Sanchi stoop",  
"Vidisha", "M.P.", 464001 ),
```

```
( 191113054, "Sandeep", "", "Shukla", "Electrical", "Near global institute",  
"Jabalpur", "M.P.", 482001 ),
```

```
( 191116043, "Abhishek", "", "Dwivedi", "Mechanical", "Vijay Nagar",  
"Indore", "M.P.", 452010 ),
```

```
( 191113058, "Vijay", "Pratap", "Singh", "Electrical", "Bhawarkua",  
"Indore", "M.P.", 452014),
```

```
( 191117001, "Anushka", "", "Pandey", "Chemical", "C-67 sambhav nagar",  
"Surat", "Gujarat", 335009 ),
```

```
( 191113012, "Divya", "", "Tiwari", "Electrical", "C A Park", "Allahabad",  
"U.P.", 211001 ),
```

```
( 191116074, "Krishna", "Kumar" , "Shrivastava", "Mechanical", "A N L  
Colony", "Lucknow", "U.P.", 226001 );
```

```
select * FROM STUDENT;
```

```
create table Rolllist
```

```
as select Enrollment_number, First_name, Middle_name, Last_name from  
student;
```

```
describe Rolllist;
```

```
select * from rolldlist;
```

```
create table CSE as
```

```
select Enrollment_number, First_name, Middle_name, Last_name from student  
where branch = "CSE";
```

```
describe CSE;
```

```
select * from CSE;
```

```
alter table CSE add Email_id VARCHAR(200);  
describe CSE;
```

```
alter table CSE modify column Email_id VARCHAR(250);  
describe CSE;  
select * from CSE;
```

```
alter table CSE drop column Email_id;  
describe CSE;
```

```
truncate table CSE;  
select * from CSE;
```

```
drop table CSE;
```