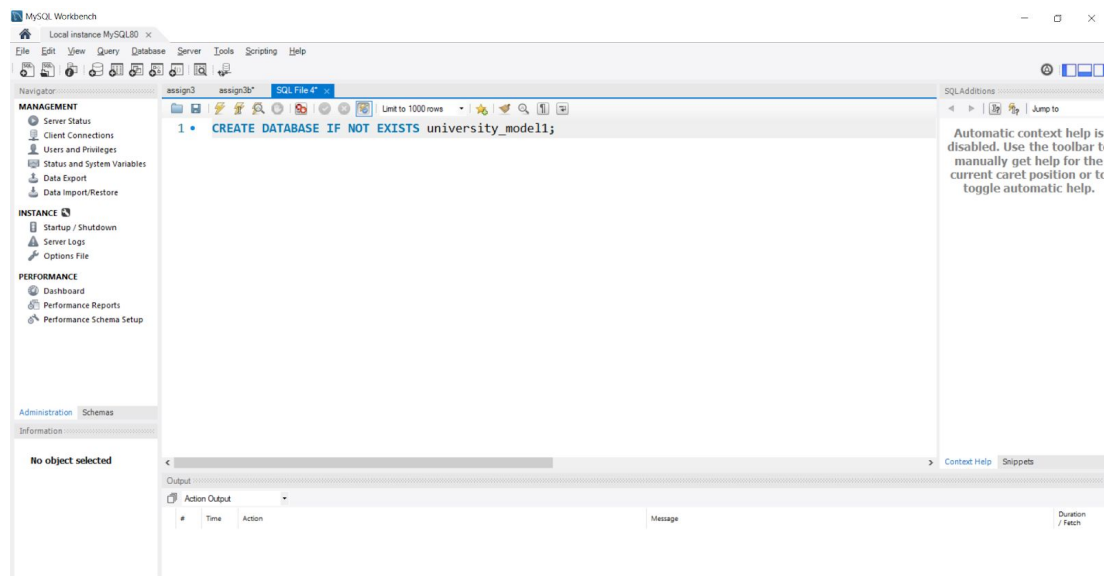


# DBMS ASSIGNMENT - 3

## 1. Show how to Create and Drop Database

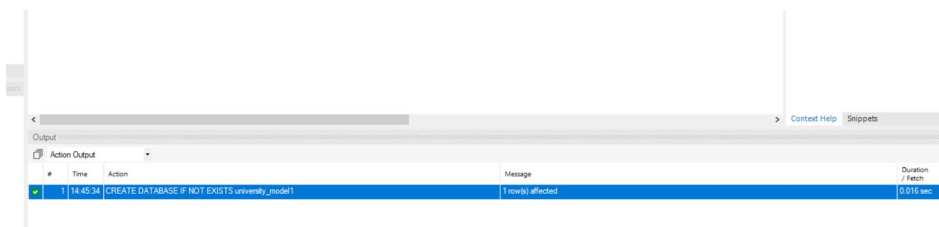
Create Database :-

Query :



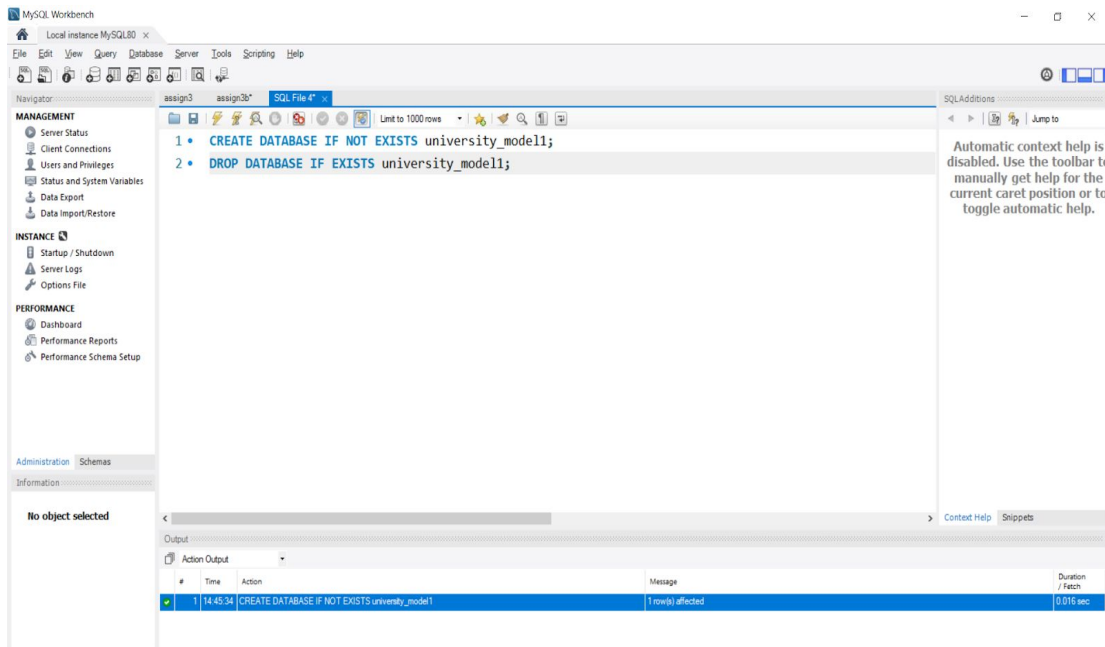
Output :

For the above query it says that database is successfully created



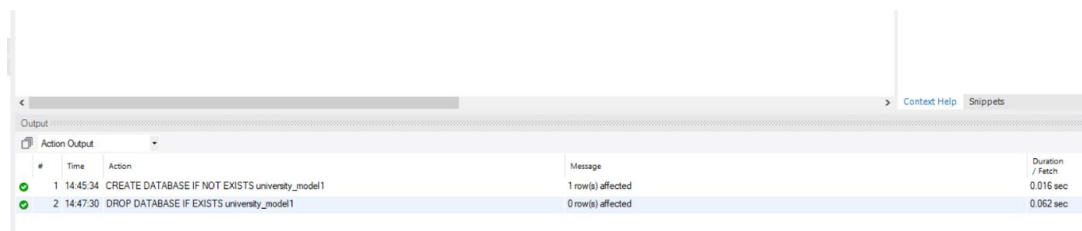
Drop Database :-

## Query :



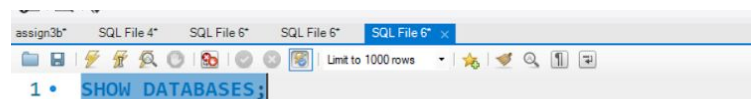
## Output :

For the above query it says that database is successfully dropped.



## 2. Show all the Databases are in the system

## Query :

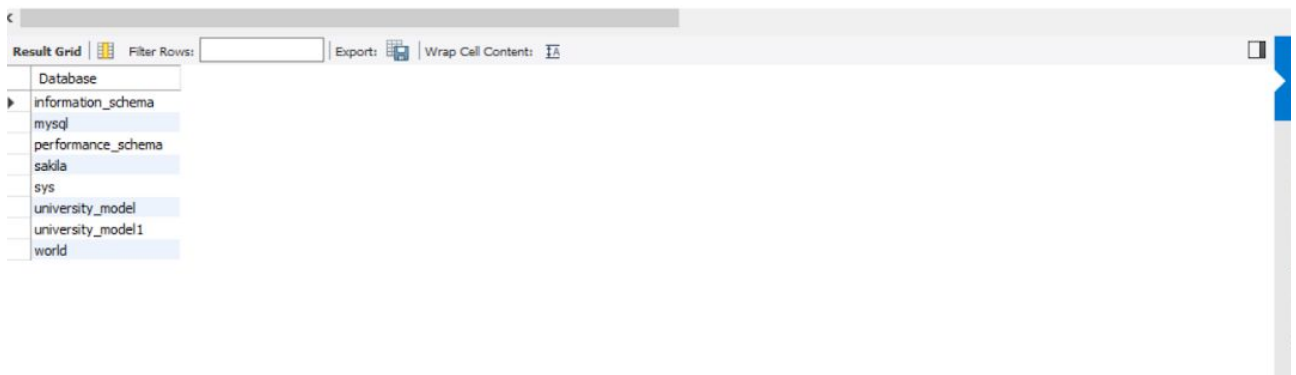


Output :



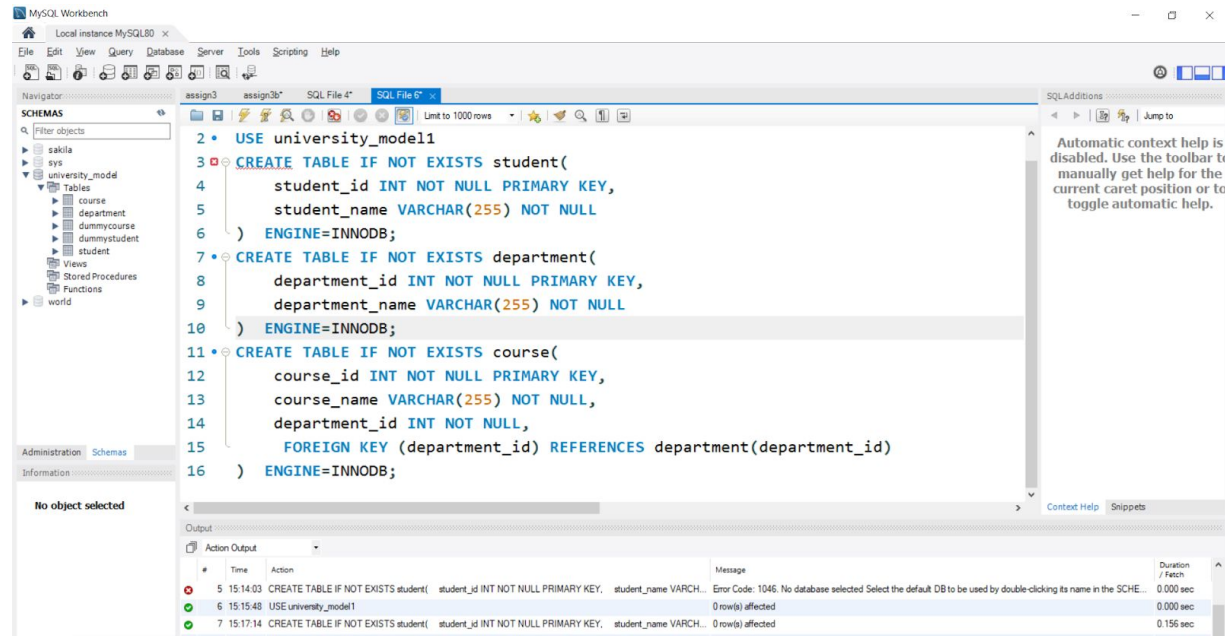
#	Time	Action	Message	Duration / Fetch
1	12:10:07	SHOW DATABASES	8 row(s) returned	0.000 sec / 0.000 sec
2	12:10:58	SHOW DATABASES	8 row(s) returned	0.015 sec / 0.000 sec

By the above query the output shows all the databases in the system



### 3.Create Table for your Database

Query :

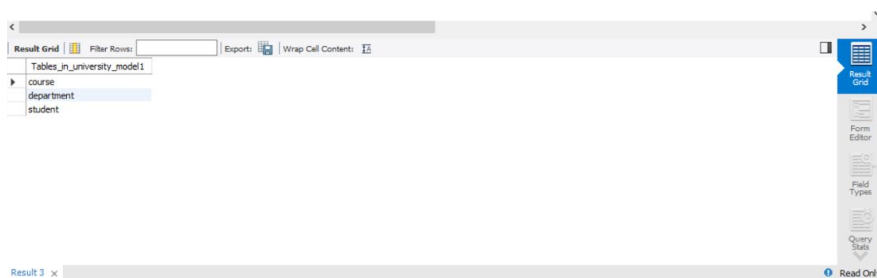


Output :

So here table is created for our database

#	Time	Action	Message	Duration / Fetch
6	15:15:48	USE university_model1	0 row(s) affected	0.000 sec
7	15:17:14	CREATE TABLE IF NOT EXISTS student( student_id INT NOT NULL PRIMARY KEY, student_name VA...	0 row(s) affected	0.156 sec
8	15:17:14	CREATE TABLE IF NOT EXISTS department( department_id INT NOT NULL PRIMARY KEY, departmen...	0 row(s) affected	0.078 sec

The created tables :



4. Show how select can be used for Creating table

Query :

```
18 • CREATE TABLE dummycourse AS
19     SELECT course_id, course_name
20     FROM course;
```

Output :

Highlighted one is the output of the above query .

#	Time	Action	Message	Duration / Fetch
8	15:17:14	CREATE TABLE IF NOT EXISTS department( department_id INT NOT NULL PRIMARY KEY, departmen...	0 row(s) affected	0.078 sec
9	15:18:11	SHOW TABLES	2 row(s) returned	0.016 sec / 0.000 sec
10	15:21:12	CREATE TABLE IF NOT EXISTS course( course_id INT NOT NULL PRIMARY KEY, course_name VAR...	0 row(s) affected	0.110 sec
11	15:21:38	CREATE TABLE dummycourse AS SELECT course_id,course_name FROM course	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec

Now the table Dummy course has been created using select. Below snapshot shows the created table :

The screenshot shows the SAP HANA Studio interface. The main window displays the 'Result Grid' tab, which contains a list of tables from the 'university\_model1' schema. The tables listed are 'course', 'department', 'dummycourse', and 'student'. The 'course' table is selected. The right sidebar contains icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Data'. The bottom status bar shows 'Result 2 x' and 'Read Only'.

## 5. Drop table

Query :

```

14     course_name VARCHAR(255) NOT NULL,
15     department_id INT NOT NULL,
16     FOREIGN KEY (department_id) REFERENCES department(department_id)
17 ) ENGINE=INNODB;
18 • CREATE TABLE dummycourse AS
19     SELECT course_id, course_name
20     FROM course;
21 • SHOW TABLES;
22 • DROP TABLE dummycourse;

```

Output :

The table was dropped successfully.



#	Time	Action	Message	Duration / Fetch
11	15:21:38	CREATE TABLE dummycourse AS SELECT course_id,course_name FROM course	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec
12	15:22:10	SHOW TABLES	4 row(s) returned	0.016 sec / 0.000 sec
13	15:23:31	DROP TABLE dummycourse	0 row(s) affected	0.047 sec
14	15:24:15	SHOW TABLES	3 row(s) returned	0.032 sec / 0.000 sec

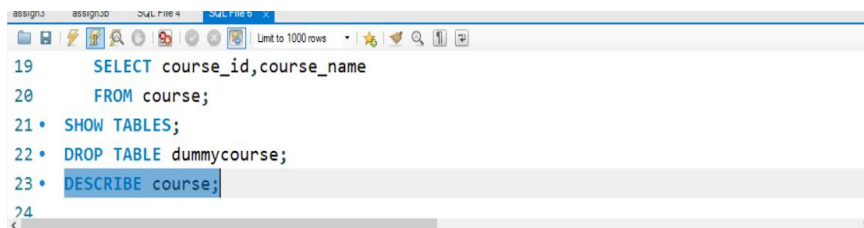
In below screenshot the dummy course table was not showing because it was successfully deleted by using drop query .



Tables_in_university_model1
course
department
student

6. Show how to check the schema of the tables .

Query :



```
19 SELECT course_id,course_name
20 FROM course;
21 • SHOW TABLES;
22 • DROP TABLE dummycourse;
23 • DESCRIBE course;
```

Output :

Result 4 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 12	15:22:10	SHOW TABLES	4 row(s) returned	0.016 sec / 0.000 sec
✓ 13	15:23:31	DROP TABLE dummycourse	0 row(s) affected	0.047 sec
✓ 14	15:24:15	SHOW TABLES	3 row(s) returned	0.032 sec / 0.000 sec
✓ 15	15:25:04	DESCRIBE course	3 row(s) returned	0.016 sec / 0.000 sec

Now by the above query we get an output of describing all our tables with their schema , all the output is shown in the below screenshot :

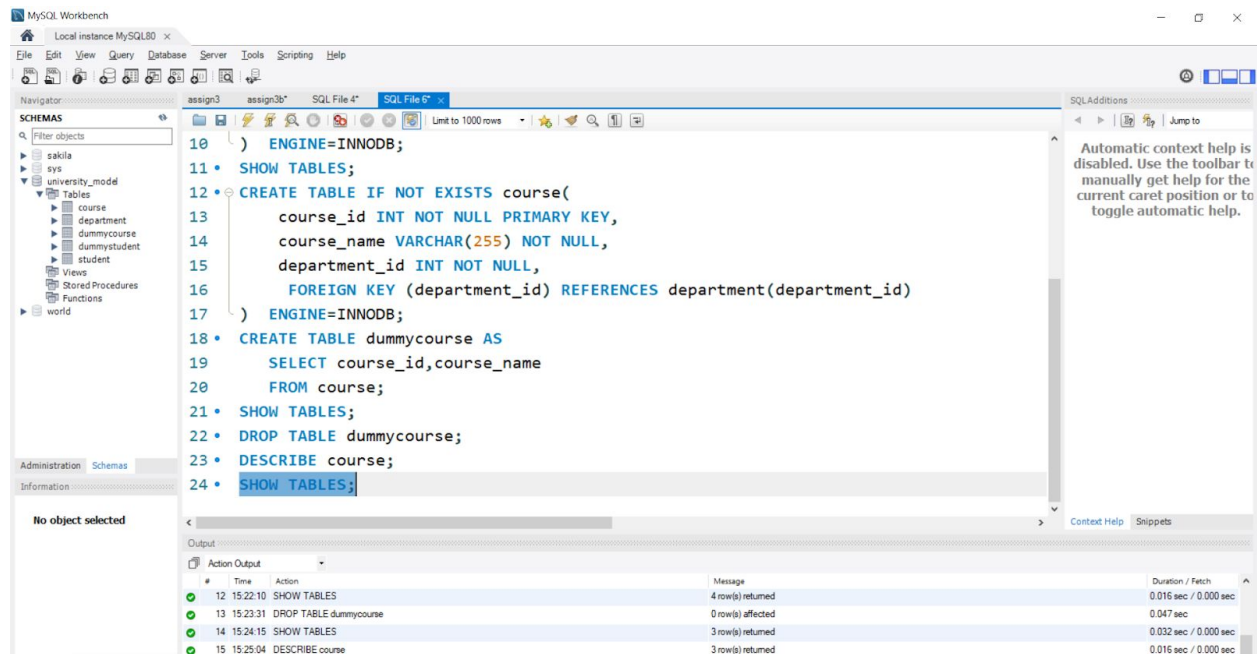
<

Result Grid Filter Rows:  Export: Wrap Cell Content: IA

	Field	Type	Null	Key	Default	Extra
▶	course_id	int	NO	PRI	NULL	
	course_name	varchar(255)	NO		NULL	
	department_id	int	NO	MUL	NULL	

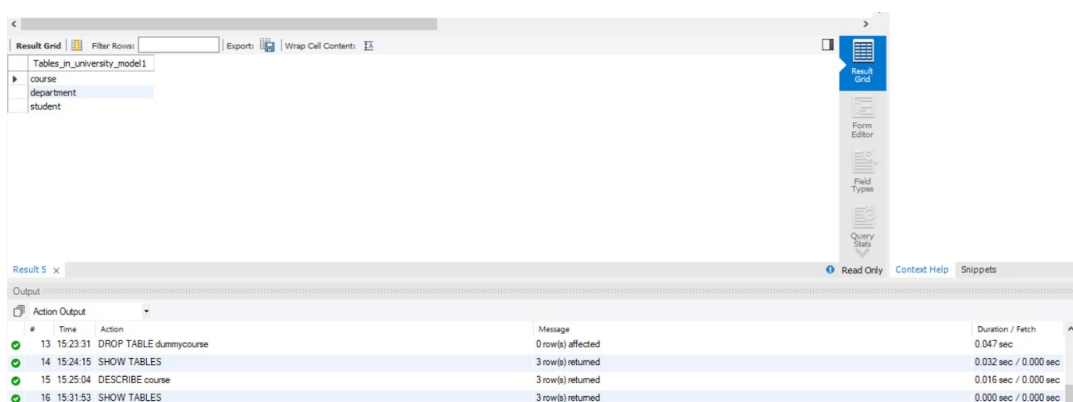
## 7. Show all the tables from the database .

Query :



Output :

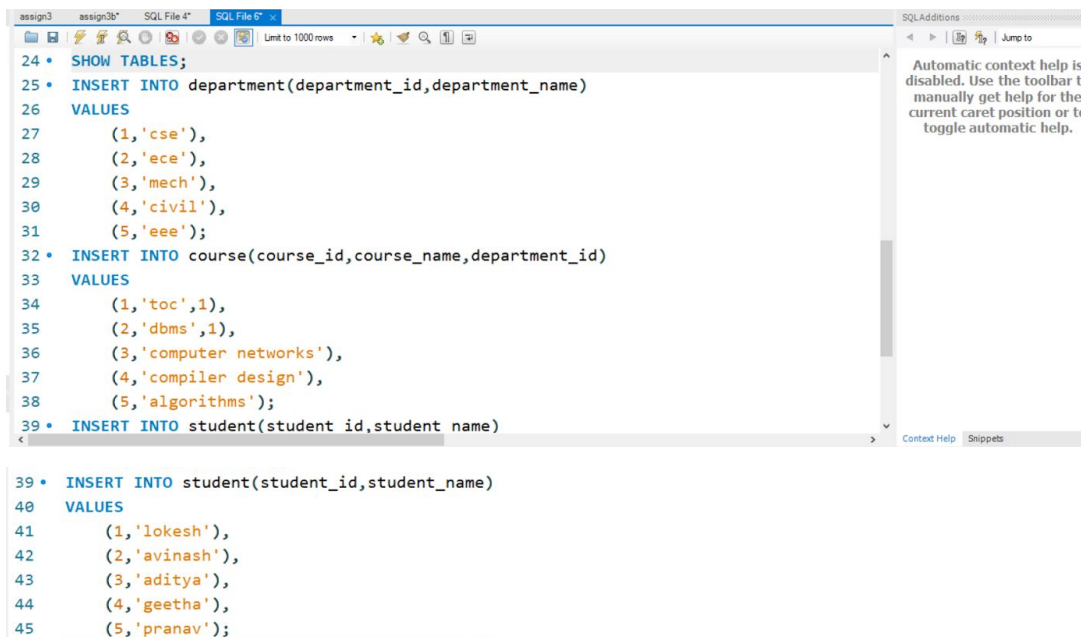
By the above query we get all the tables in our database.



## 8. Insert 5 to 10 rows in each of the tables of your Database.



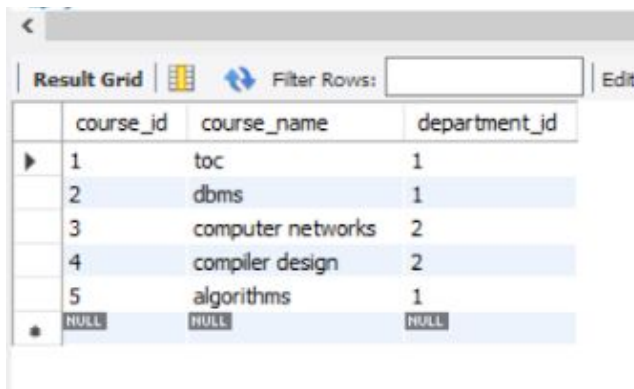
Query :



```
24 • SHOW TABLES;
25 • INSERT INTO department(department_id,department_name)
26 VALUES
27     (1,'cse'),
28     (2,'ece'),
29     (3,'mech'),
30     (4,'civil'),
31     (5,'eee');
32 • INSERT INTO course(course_id,course_name,department_id)
33 VALUES
34     (1,'toc',1),
35     (2,'dbms',1),
36     (3,'computer networks'),
37     (4,'compiler design'),
38     (5,'algorithms');
39 • INSERT INTO student(student_id,student_name)
40 VALUES
41     (1,'lokesh'),
42     (2,'avinash'),
43     (3,'aditya'),
44     (4,'geetha'),
45     (5,'pranav');
```

Output :

By the above query we are inserting 5 rows to each table in our database. And the output is shown in below screenshot



	course_id	course_name	department_id
▶	1	toc	1
	2	dbms	1
	3	computer networks	2
	4	compiler design	2
	5	algorithms	1
•	NULL	NULL	NULL

Result Grid			Filter Rows:
	department_id	department_name	
▶	1	cse	
	2	ece	
	3	mech	
	4	civil	
	5	eee	
•	NULL	NULL	

Result Grid			Filter Rows:
	student_id	student_name	
▶	1	lokesh	
	2	avinash	
	3	aditya	
	4	geetha	
	5	pranav	
•	NULL	NULL	

## 9. Show usage of Simple Select Statement .

Query :

```

45      (>, pranav );
46 • SELECT course_name FROM course WHERE department_id = 1;
47
48

```

Output :

#	Time	Action	Message	Duration / Fetch
22	15:52:08	SELECT * FROM department LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	15:52:08	SELECT * FROM student LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	15:54:43	SELECT course_name WHERE department_id = 1	Error Code: 1054: Unknown column 'course_name' in 'field list'	0.000 sec
25	15:55:21	SELECT course_name FROM course WHERE department_id = 1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Now it selects the course name from course where the department id is equal to 1 and it indicates the course name as shown in the below screenshot .


Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	course_name			
▶	toc			
	dbms			
	algorithms			

## 10. Select Statement using Relational and Logical operators.

Query :

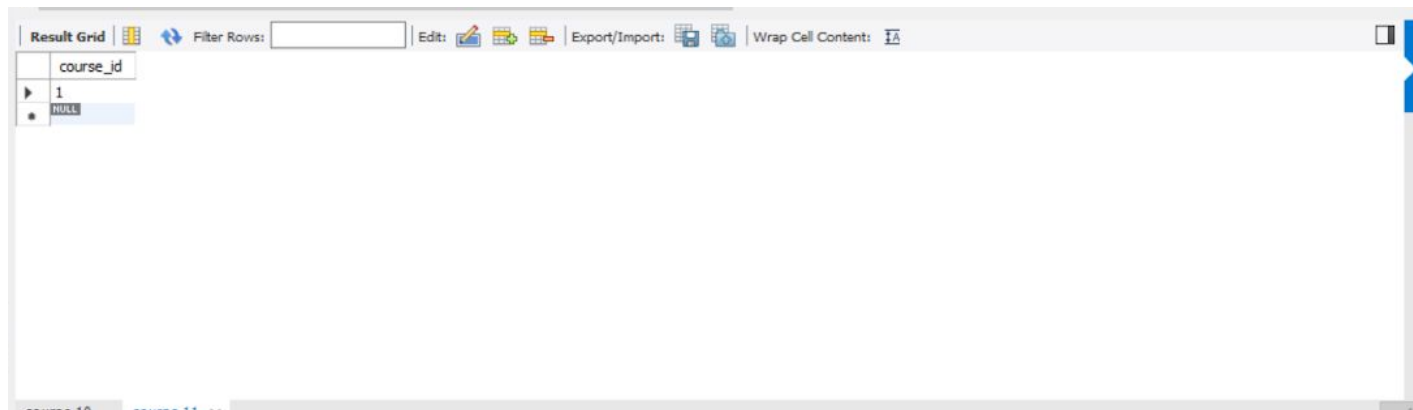
```
SELECT course_id
FROM course
WHERE department_id = '1'
AND course_name = 'toc';
```

Output :



#	Time	Action	Message	Duration / Fetch
24	15:54:43	SELECT course_name WHERE department_id = 1	Error Code: 1054, Unknown column 'course_name' in field list	0.000 sec
25	15:55:21	SELECT course_name FROM course WHERE department_id = 1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
26	15:57:32	SELECT course_name FROM course WHERE department_id = 1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
27	15:57:32	SELECT course_id FROM course WHERE department_id = 1 AND course_name = 'toc' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

By the above query it selects the course name from department id and also course id from course where department id is 1 and course name is toc .



course_id
1
NULL

11. One simple Subquery using select .

Query :

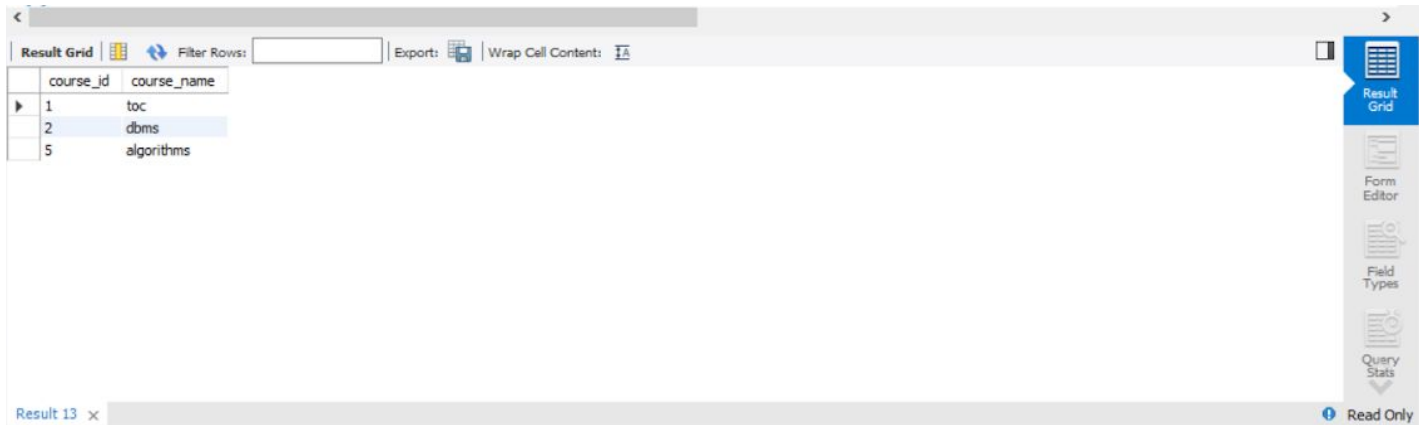
```
SELECT course_id, course_name
FROM course c, department d
WHERE c.department_id = d.department_id AND d.department_id =
(SELECT department_id
FROM department
WHERE department_name = 'cse'
);
```

Output :



#	Time	Action	Message	Duration / Fetch
26	15:57:32	SELECT course_name FROM course WHERE department_id = 1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
27	15:57:32	SELECT course_id FROM course WHERE department_id = 1 AND course_name = 'toc' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
28	15:59:08	SELECT course_id FROM course WHERE department_id = 1 AND course_name = 'toc' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
29	15:59:58	SELECT course_id, course_name FROM course c, department d WHERE c.department_id = d.department_id AND d.department_name = 'cse'	3 row(s) returned	0.000 sec / 0.000 sec

The output for the above query is shown in below screenshot



The screenshot displays a database query result grid. The grid has two columns: 'course\_id' and 'course\_name'. The data is as follows:

course_id	course_name
1	toc
2	dbms
5	algorithms

The interface includes a toolbar at the top with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. A sidebar on the right contains icons for 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar indicates 'Result 13' and 'Read Only'.