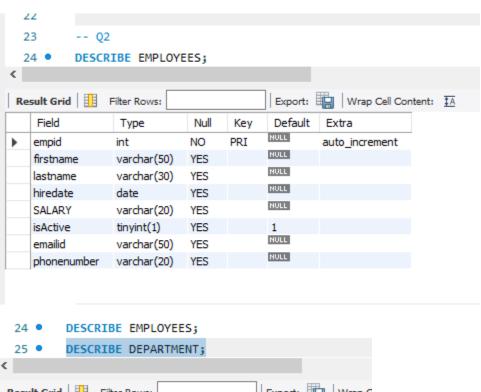NAME : PIRANJAL

SECTION: 4 B

REG NO : cs231052

: ASSIGNMENT NO 1:

1.Create two tables with at least 6 columns having 4 different data types.

```sql
4        -- Q1
5  •  ⊖ CREATE TABLE EMPLOYEES(
6          empid INT PRIMARY KEY AUTO_INCREMENT,
7          firstname VARCHAR(50),
8          lastname VARCHAR(30),
9          hiredate DATE,
10         salary DECIMAL(10,2),
11         isActive BOOLEAN DEFAULT TRUE
12       );
13
14  •  ⊖ CREATE TABLE DEPARTMENT(
15         deptid INT PRIMARY KEY ,
16         dept_name VARCHAR(50),
17         location VARCHAR(30),
18         establishedyear YEAR ,
19         budget DECIMAL(10,2),
20         isOperational BOOLEAN
21       );
```

2. Show the structure of tables created in (1).

```
22
23        -- Q2
24 •      DESCRIBE EMPLOYEES;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\underline{\text{A}}$

Field	Type	Null	Key	Default	Extra
▶ empid	int	NO	PRI	NULL	auto_increment
firstname	varchar(50)	YES		NULL	
lastname	varchar(30)	YES		NULL	
hiredate	date	YES		NULL	
SALARY	varchar(20)	YES		NULL	
isActive	tinyint(1)	YES		1	
emailid	varchar(50)	YES		NULL	
phonenumber	varchar(20)	YES		NULL	

```
24 •      DESCRIBE EMPLOYEES;
25 •      DESCRIBE DEPARTMENT;
```

Result Grid | Filter Rows: | Export: | Wrap C

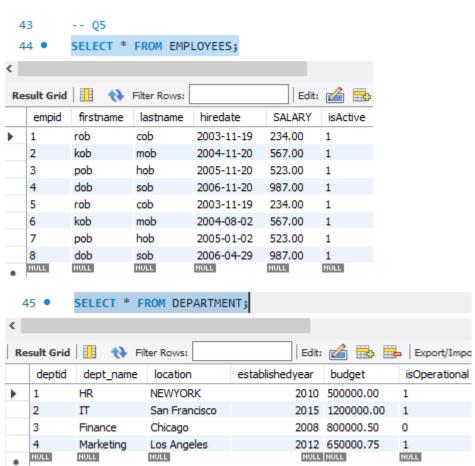| Field	Type	Null	Key	Default	Extra
▶ deptid	int	NO	PRI	NULL	
dept_name	varchar(50)	YES		NULL	
location	varchar(30)	YES		NULL	
establishedyear	year	YES		NULL	
budget	varchar(30)	YES		NULL	
isOperational	tinyint(1)	YES		NULL	

3. Insert at least 4 records into the first table using column names.

```
-- Q3
INSERT INTO EMPLOYEES ( firstname, lastname, hiredate ,salary)
VALUES
("rob","cob", '2003-11-19', 234 ),
("kob", "mob", '2004-08-2', 567),
("pob", "hob",'2005-01-2', 523),
("dob", "sob",'2006-04-29',987);
```
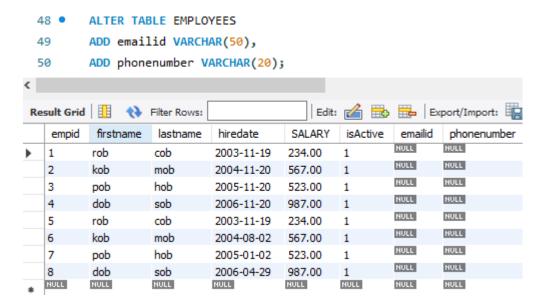
4. Insert at least 4 records into the second table without using the column's name.

```
-- Q4
INSERT INTO DEPARTMENT
VALUES
(1, 'HR', 'New York', 2010, 500000.00, TRUE),
(2, 'IT', 'San Francisco', 2015, 1200000.00, TRUE),
(3, 'Finance', 'Chicago', 2008, 800000.50, FALSE),
(4, 'Marketing', 'Los Angeles', 2012, 650000.75, TRUE);
```

5. With a separate query for each table, show the table data.

```
43        -- Q5
44  •     SELECT * FROM EMPLOYEES;
```

Result Grid | Filter Rows: | Edit:

empid	firstname	lastname	hiredate	SALARY	isActive
1	rob	cob	2003-11-19	234.00	1
2	kob	mob	2004-11-20	567.00	1
3	pob	hob	2005-11-20	523.00	1
4	dob	sob	2006-11-20	987.00	1
5	rob	cob	2003-11-19	234.00	1
6	kob	mob	2004-08-02	567.00	1
7	pob	hob	2005-01-02	523.00	1
8	dob	sob	2006-04-29	987.00	1
NULL	NULL	NULL	NULL	NULL	NULL

```
45  •     SELECT * FROM DEPARTMENT;
```

Result Grid | Filter Rows: | Edit: | Export/Impo

deptid	dept_name	location	establishedyear	budget	isOperational
1	HR	NEWYORK	2010	500000.00	1
2	IT	San Francisco	2015	1200000.00	1
3	Finance	Chicago	2008	800000.50	0
4	Marketing	Los Angeles	2012	650000.75	1
NULL	NULL	NULL	NULL	NULL	NULL

6. Add two columns into any one table.

```
48 ●    ALTER TABLE EMPLOYEES
49        ADD emailid VARCHAR(50),
50        ADD phonenumber VARCHAR(20);
```

Result Grid | 🔢 | ↻ Filter Rows: [   ] | Edit: 🖊 📇 📇 | Export/Import: 🖫

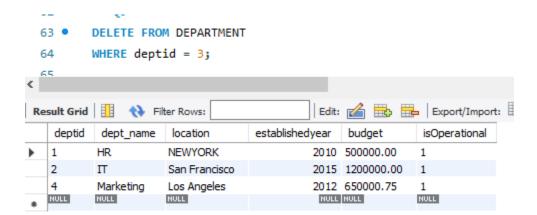| empid	firstname	lastname	hiredate	SALARY	isActive	emailid	phonenumber
1	rob	cob	2003-11-19	234.00	1	NULL	NULL
2	kob	mob	2004-11-20	567.00	1	NULL	NULL
3	pob	hob	2005-11-20	523.00	1	NULL	NULL
4	dob	sob	2006-11-20	987.00	1	NULL	NULL
5	rob	cob	2003-11-19	234.00	1	NULL	NULL
6	kob	mob	2004-08-02	567.00	1	NULL	NULL
7	pob	hob	2005-01-02	523.00	1	NULL	NULL
8	dob	sob	2006-04-29	987.00	1	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

7. Alter the data type of any two columns from any table.

```
-- Q7
ALTER TABLE EMPLOYEES
MODIFY COLUMN SALARY VARCHAR(20);


ALTER TABLE DEPARTMENT
MODIFY COLUMN budget VARCHAR(30);
```

8. Truncate the first table data.

```
59        -- Q8
60 ●    TRUNCATE TABLE EMPLOYEES;
61
```

Result Grid | 🔢 | ↻ Filter Rows: [   ] | Edit: 🖊 📇 📇 | Export/Import: 🖫

empid	firstname	lastname	hiredate	SALARY	isActive	emailid	phonenumber
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

9. Delete the third record of the second table.

```
63  •    DELETE FROM DEPARTMENT
64       WHERE deptid = 3;
65
```

deptid	dept_name	location	establishedyear	budget	isOperational
1	HR	NEWYORK	2010	500000.00	1
2	IT	San Francisco	2015	1200000.00	1
4	Marketing	Los Angeles	2012	650000.75	1
NULL	NULL	NULL	NULL	NULL	NULL

10. Update the first record of the second table.

```
66       -- Q10
67  •    UPDATE DEPARTMENT
68       SET location='KARACHI'
69       WHERE deptid = 1;
70
```

deptid	dept_name	location	establishedyear	budget	isOperational
1	HR	KARACHI	2010	500000.00	1
2	IT	San Francisco	2015	1200000.00	1
4	Marketing	Los Angeles	2012	650000.75	1
NULL	NULL	NULL	NULL	NULL	NULL