ASSIGNMENT 2

ROLL NO: 31448

```
CREATE TABLE PlacementDrive (
   Drive_id INT PRIMARY KEY,
   Pcompany_name VARCHAR(50),
   package DECIMAL(10,2),
   location VARCHAR(50)
);
```

desc PlacementDrive;

Field	Type	Null	Key	Default	Extra
Drive_id	int	NO	PRI	NULL	
Pcompany_name	varchar(50)	YES		NULL	
package	decimal(10,2)	YES		NULL	
location	varchar(50)	YES		NULL	

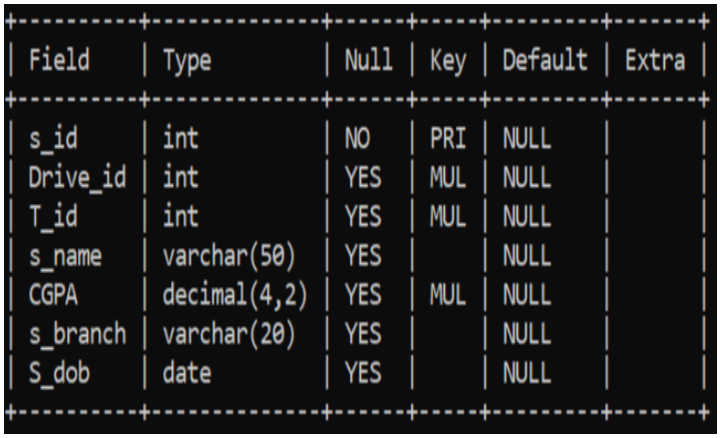
```
CREATE TABLE Training (
   T_id INT PRIMARY KEY,
   Tcompany_name VARCHAR(50),
   T_Fee DECIMAL(10,2),
   T_year INT
);
```

desc Training;

Field	Type	Null	Key	Default	Extra
T_id	int	NO	PRI	NULL	
Tcompany_name	varchar(50)	YES		NULL	
T_Fee	decimal(10,2)	YES		NULL	
T_year	int	YES		NULL	

```
CREATE TABLE Student (
   s_id INT PRIMARY KEY,
```

```
    Drive_id INT,
    T_id INT,
    s_name VARCHAR(50),
    CGPA DECIMAL(4,2),
    s_branch VARCHAR(20),
    S_dob DATE,
    FOREIGN KEY (Drive_id) REFERENCES PlacementDrive(Drive_id)
        ON DELETE CASCADE,
    FOREIGN KEY (T_id) REFERENCES Training(T_id)
        ON DELETE CASCADE
);
desc Student;
```



Field	Type	Null	Key	Default	Extra
s_id	int	NO	PRI	NULL	
Drive_id	int	YES	MUL	NULL	
T_id	int	YES	MUL	NULL	
s_name	varchar(50)	YES		NULL	
CGPA	decimal(4,2)	YES	MUL	NULL	
s_branch	varchar(20)	YES		NULL	
S_dob	date	YES		NULL	

VIEW

CREATE VIEW student_view AS SELECT s.s_id,s.s_name,p.Pcompany_name, s.CGPA FROM Student s JOIN PlacementDrive p ON s.Drive_id =p.Drive_id;

s_id	s_name	Pcompany_name	CGPA
11	Soham Kulkarni	Google	8.90
16	Aishwarya Nair	Google	8.60
12	Tanvi Deshmukh	Amazon	9.10
17	Harshad Joshi	Amazon	9.30
13	Yash Patil	Microsoft	7.80
18	Rutuja Pawar	Microsoft	7.90
14	Snehal Rane	Accenture	8.40
19	Nikhil Gaikwad	Accenture	8.20
15	Omkar Shinde	IBM	8.00
20	Vidya More	IBM	8.70

INDEX

CREATE INDEX idx_branch ON Student(s_branch);

SELECT * FROM Student USE INDEX(idx_branch);

s_id	Drive_id	T_id	s_name	CGPA	s_branch	S_dob
11	1	201	Soham Kulkarni	8.90	CSE	2002-03-15
12	2	202	Tanvi Deshmukh	9.10	IT	2003-10-10
13	3	203	Yash Patil	7.80	ECE	2001-11-20
14	4	204	Snehal Rane	8.40	EEE	2002-06-25
15	5	205	Omkar Shinde	8.00	CSE	2003-02-18
16	1	201	Aishwarya Nair	8.60	IT	2002-07-30
17	2	202	Harshad Joshi	9.30	ECE	2001-12-12
18	3	203	Rutuja Pawar	7.90	EEE	2003-01-05
19	4	204	Nikhil Gaikwad	8.20	CSE	2002-09-14
20	5	205	Vidya More	8.70	IT	2001-05-09

CREATE UNIQUE INDEX idx_pcompany ON PlacementDrive(Pcompany_name)”;

SELECT * FROM PlacementDrive USE INDEX(idx_pcompany) WHERE Pcompany_name=”Google”;

Drive_id	Pcompany_name	package	location
1	Google	1200000.00	Bangalore

SEQUENCE

```
CREATE TABLE users (
   id INT AUTO_INCREMENT PRIMARY KEY,
   name VARCHAR(100),
   email VARCHAR(100));
INSERT INTO users(name,email) VALUES
   ("Sanskruti","san@gmail.com"),
   ("Mayuri","Mayuri@gmail.com");
```

SELECT * FROM users;

id	name	email
1	Sanskruti	san@gmail.com
2	Mayuri	Mayuri@gmail.com

Assignment No 2B Use the tables created in assignment no 2 and execute the following queries:

1. **Insert at least 10 records in the Student table and insert other tables accordingly.**

```
INSERT INTO PlacementDrive (Drive_id, Pcompany_name, package, location) VALUES
(1, 'Google', 1200000, 'Bangalore'),
(2, 'Amazon', 1100000, 'Hyderabad'),
(3, 'Microsoft', 1150000, 'Noida'),
(4, 'Accenture', 600000, 'Pune'),
(5, 'IBM', 30000, 'Mumbai');

INSERT INTO Training (T_id, Tcompany_name, T_Fee, T_year) VALUES
(201, 'Scaler', 5000, 2023),
(202, 'GeeksforGeeks', 4000, 2022),
(203, 'GreatLearning', 3500, 2024),
(204, 'edX', 6000, 2023),
(205, 'Skillshare', 3000, 2022);

INSERT INTO Student (s_id, Drive_id, T_id, s_name, CGPA, s_branch, S_dob) VALUES
(11, 1, 201, 'Soham Kulkarni', 8.9, 'CSE', '2002-03-15'),
(12, 2, 202, 'Tanvi Deshmukh', 9.1, 'IT', '2003-10-10'),
(13, 3, 203, 'Yash Patil', 7.8, 'ECE', '2001-11-20'),
(14, 4, 204, 'Snehal Rane', 8.4, 'EEE', '2002-06-25'),
(15, 5, 205, 'Omkar Shinde', 8.0, 'CSE', '2003-02-18'),
(16, 1, 201, 'Aishwarya Nair', 8.6, 'IT', '2002-07-30'),
(17, 2, 202, 'Harshad Joshi', 9.3, 'ECE', '2001-12-12'),
(18, 3, 203, 'Rutuja Pawar', 7.9, 'EEE', '2003-01-05'),
(19, 4, 204, 'Nikhil Gaikwad', 8.2, 'CSE', '2002-09-14'),
(20, 5, 205, 'Vidya More', 8.7, 'IT', '2001-05-09');
SELECT* FROM STUDENT;
```

s_id	Drive_id	T_id	s_name	CGPA	s_branch	S_dob
11	1	201	Soham Kulkarni	8.90	CSE	2002-03-15
12	2	202	Tanvi Deshmukh	9.10	IT	2003-10-10
13	3	203	Yash Patil	7.80	ECE	2001-11-20
14	4	204	Snehal Rane	8.40	EEE	2002-06-25
15	5	205	Omkar Shinde	8.00	CSE	2003-02-18
16	1	201	Aishwarya Nair	8.60	IT	2002-07-30
17	2	202	Harshad Joshi	9.30	ECE	2001-12-12
18	3	203	Rutuja Pawar	7.90	EEE	2003-01-05
19	4	204	Nikhil Gaikwad	8.20	CSE	2002-09-14
20	5	205	Vidya More	8.70	IT	2001-05-09

2.Display all students details with branch ‘Computer ‘and ‘It’ and student name starting with 'a' or 'd'.

SELECT * FROM Student WHERE (s_branch = 'Computer' OR s_branch = 'IT') AND (s_name LIKE 'A%' OR s_name LIKE 'D%');

s_id	Drive_id	T_id	s_name	CGPA	s_branch	S_dob
16	1	201	Aishwarya Nair	8.60	IT	2002-07-30

3.list the number of different companies.(use of distinct)

SELECT DISTINCT Pcompany_name FROM PlacementDrive;

Pcompany_name
Accenture
Amazon
Google
IBM
Microsoft

4. Give 15% increase in fee of the Training whose joining year is 2019.

SELECT * FROM Training;

T_id	Tcompany_name	T_Fee	T_year
206	Grow	7000.00	2019

UPDATE Training SET T_Fee = T_Fee + (T_Fee * 0.15) WHERE T_year = 2019;

SELECT * FROM Training;

T_id	Tcompany_name	T_Fee	T_year
206	Grow	8050.00	2019

5. Delete Student details having CGPA score less than 7.

DELETE FROM Student WHERE CGPA < 7;

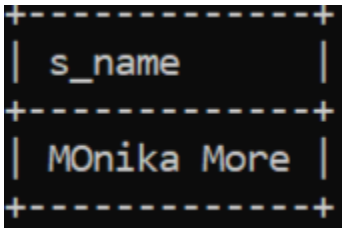
6. Find the names of companies belonging to pune or Mumbai

SELECT Pcompany_name FROM PlacementDrive WHERE location = 'Pune' OR location = 'Mumbai';

SELECT Pcompany_name FROM PlacementDrive WHERE location = 'Pune' OR location = 'Mumbai';

7. Find the student name who joined training in 1-1-2019 as well as in 1-1-2021

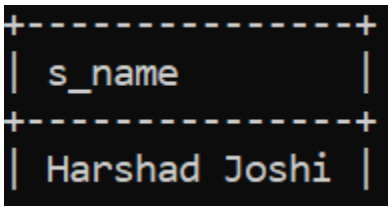
SELECT s_name FROM Student WHERE T_id IN(SELECT T_id FROM Training WHERE T_year IN(2019,2021));



s_name
MOnika More

8. Find the student name having maximum CGPA score and names of students having CGPA score between 7 to 9

SELECT s_name FROM Student WHERE CGPA = (SELECT MAX(CGPA) FROM Student);



s_name
Harshad Joshi

9. Display all Student name with T_id with decreasing order of Fees

SELECT s_name, T_id FROM Student ORDER BY (SELECT T_Fee FROM Training WHERE Training.T_id = Student.T_id) DESC;

s_name	T_id
MOnika More	206
Snehal Rane	204
Nikhil Gaikwad	204
Soham Kulkarni	201
Aishwarya Nair	201
Tanvi Deshmukh	202
Harshad Joshi	202
Yash Patil	203
Rutuja Pawar	203
Omkar Shinde	205
Vidya More	205

10. Display PCompany name, S_name ,location and Package with Package 30K, 40K and 50k

```
SELECT
   (SELECT Pcompany_name FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS Pcompany_name,
   s.s_name,
   (SELECT location FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS location,
   (SELECT package FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS package
FROM Student s
WHERE (SELECT package FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) IN (30000, 40000, 50000);
```

Pcompany_name	s_name	location	package
IBM	Omkar Shinde	Mumbai	30000.00
IBM	Vidya More	Mumbai	30000.00
IBM	MOnika More	Mumbai	30000.00