Name: Anushree Gattani

Roll no: 31404 Batch: K4 DBMSL

Assignment 2A

1. Create Student Table:

Query:

CREATE TABLE Student (s_id INT AUTO_INCREMENT PRIMARY KEY, drive_id INT NOT NULL,T_id INT,s_name VARCHAR(50) NOT NULL, cgpa FLOAT,s_branch VARCHAR(50) NOT NULL,s_dob DATE NOT NULL,FOREIGN KEY (T_id) REFERENCES Training(T_id));

Output:

mysql> CREATE TABLE Student (s_id INT AUTO_INCREMENT PRIMARY KEY, drive_id INT NOT NULL,T_id INT,s_name VARCHAR(50) NOT NULL, cgpa FLOAT,s_branch VARCHAR(50) NOT NULL,s_dob DATE NOT NULL,FOREIGN KEY (T_id) REFERENCES Training(T_id));
Query OK, 0 rows affected (0.06 sec)

2. Create PlacementDrive Table:

Query:

create table PlacementDrive(Drive_id int primary key,Pcompany_name varchar(50) not null,package bigint not null,location varchar(50) not null);

Output:

mysql> create table PlacementDrive(Drive_id int primary key,Pcompany_name varchar(50) not null,package bigint not null,location varchar(50) not null);
Query OK, 0 rows affected (0.03 sec)

3. Create Training Table:

Query:

create table Training(T_id int primary key,Tcompany_name varchar(50) not null,T_fee bigint not null,T_year int not null);

Output:

mysql> create table Training(T_id int primary key,Tcompany_name varchar(50) not null,T_fee bigint not null,T_year int not null)
Query OK, θ rows affected (0.07 sec)

4. Create Student view:

Query:

create view Student View as select s id, drive id, T id, s name, cgpa, s branch, s dob from Student;

Output:

mysql> create view Student_View as select s_id,drive_id,T_id,s_name,cgpa,s_branch,s_dob from Student;
Query OK, 0 rows affected (0.03 sec)
l> mysql>

5. Create index on Student:

Query:

create index S Index on Student(s name,cgpa);

Output:

Assignment Queries:

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

Query:

Student -

INSERT INTO Student (s_id, Drive_id, T_id, s_name, CGPA, s_branch, S_dob) VALUES (1, 101, 1, 'Alana', 8.5, 'Computer Engineering', '2000-01-15'),(2, 102, 2, 'David', 7.8, 'IT', '1999-02-20'),(3, 103, 3, 'Danny', 9.1, 'Electrical Engineering', '2000-03-25'),(4, 104, 4, 'Amalia', 6.9, 'Computer Engineering', '1998-04-30'),(5, 105, 5, 'Diya', 7.2, 'IT', '2000-05-10'),(6, 106, 6, 'Bansi', 6.5, 'Electrical Engineering', '1999-06-15')5-10'),(6, 106, 6, 'Bansi', 6.5, 'Electrical Engine, '2000-07-20'),(8, 108, 1, 'Dhanashree', 9.0, 'IT', '1998-08-25'),(9, 109, 2, 'Anu', 7.5, 'Electrical Engineering', '1999-09-30'),(10, 110, 3, 'Deepak', 8.3, 'Computer Engineering', '2000-10-10');

Output:

mysql> INSERT INTO Student (s_id, Drive_id, T_id, s_name, CGPA, s_branch, S_dob) VALUES (1, 101, 1, 'Alana', 8.5, 'Computer Engineering', '2000-01-1 5'),(2, 102, 2, 'David', 7.8, 'IT', '1999-02-20'),(3, 103, 3, 'Danny', 9.1, 'Electrical Engineering', '2000-03-25'),(4, 104, 4, 'Amalia', 6.9, 'Computer Engineering', '1998-04-30'),(5, 105, 5, 'Diya', 7.2, 'IT', '2000-05-10'),(6, 106, 6, 'Bansi', 6.5, 'Electrica Engineering', '1999-06-15'),(7, 'Chinmayi', 8.0, 'Computer Engineering', '2000-07-20'),(8, 108, 1, 'Dhanashree', 9.0, 'IT', '1998-08-25'),(9, 109, 2, 'Anu', 7.5, 'Electrica (Lengineering', '1999-09-30'),(10, 110, 3, 'Deepak', 8.3, 'Computer Engineering', '2000-10-10'); (Records: 10 rows affected (0.01 sec)

s_id	drive_id	T_id	s_name	cgpa	s_branch	s_dob
1	101	1	Alana	8.5	Computer Engineering	2000-01-15
2	102	2	David	7.8	IT	1999-02-20
3	103	3	Danny	9.1	Electrical Engineering	2000-03-25
4	104	4	Amalia	6.9	Computer Engineering	1998-04-30
5	105	5	Diya	7.2	IT	2000-05-10
6	106	6	Bansi	6.5	Electrical Engineering	1999-06-15
7	107	7	Chinmayi	8	Computer Engineering	2000-07-20
8	108	1	Dhanashree	9	IT	1998-08-25
9	109	2	Anu	7.5	Electrical Engineering	1999-09-30
10	110	3	Deepak	8.3	Computer Engineering	2000-10-10

PlacementDrive -

INSERT INTO PlacementDrive (Drive_id, Pcompany_name, package, location) VALUES (1, 'Reliance Industries', 950000.00, 'Mumbai'),(2, 'Flipkart', 900000.00, 'Pune'),(3, 'Aditya Birla Group', 850000.00, 'Bangalore'),(4, 'Mahindra & Mahindra', 920000.00, 'Chennai'),(5, 'Paytm', 870000.00, 'Pune'),(6, 'Ola Cabs', 890000.00, 'Mumbai'),(7, 'Zomato', 860000.00, 'Hyderabad');

Output:

mysql> INSERT INTO PlacementDrive (Drive_id, Pcompany_name, package, location) VALUES (1, 'Reliance Industries', 950000.00, 'Mumbai'),(2, 'Flipkart', 900000.00, 'Pune'),(3, 'Aditya Birla Group', 850000.00, 'Bangalore'),(4, 'Mahindra & Mahindra', 920000.00, 'Chennai'),(5, 'Paytm', 870000.00, 'Pune'),(6, 'Ola Cabs', 890000.00, 'Mumbai'),(7, 'Zomato', 860000.00, 'Hyderabad');
Query OK, 7 rows affected (0.02 sec)
Records: 7 Duplicates: 0 Warnings: 0

+	t * from PlacementDriv Pcompany_name	·	+ location
1	Reliance Industries	950000	
2	Flipkart Aditya Birla Group	900000 850000	Pune Bangalore
4 5		920000 870000	:
6	Olá Cabs	890000	Mumbai
7	Zomato	860000 	Hyderabad +
7 +	Zomato et (0.00 sec)	860000	Hyderabad

Training –

INSERT INTO Training (T_id, Tcompany_name, T_Fee, T_year) VALUES (1, 'Tata Consultancy Services', 50000.00, 2016),(2, 'Infosys', 60000.00, 2018),(3, 'Wipro', 55000.00, 2020),(4, 'HCL Technologies', 52000.00, 2019),(5, 'Tech Mahindra', 58000.00, 2021),(6, 'Cognizant', 62000.00, 2022),(7, 'Larsen & Toubro Infotech', 57000.00, 2023);

Output:

```
mysql> INSERT INTO Training (T_id, Tcompany_name, T_Fee, T_year) VALUES (1, 'Tata Consultancy Services', 50000.00, 2016),(2, 'Infosys', 60000.00, 2018),(3, 'Wipro', 55000.00, 2020),(4, 'HCL Technologies', 52000.00, 2019),(5, 'Tech Mahindra', 58000.00, 2021),(6, 'Cognizant', 62000.00, 2022),(7, 'Larsen & Toubro Infotech', 57000.00, 2023);
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

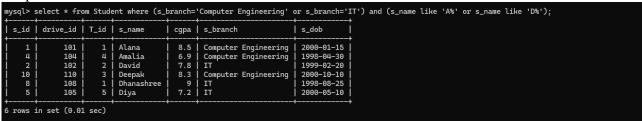
mysql> :	select * from Training;		
T_id	Tcompany_name	T_fee	
1	Tata Consultancy Services	50000	2016
1 2	Infosys Wipro	60000 55000	2018 2020
4	HCL Technologies	52000	2019
5	Tech Mahindra	58000	2021
6	Cognizant	62000	2022
7	Larsen & Toubro Infotech	57000	2023
7 rows :	+in set (0.00 sec)	+	+

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

Query:

select * from Student where (s_branch='Computer Engineering' or s_branch='IT') and (s_name like 'A%' or s_name like 'D%');

Output:



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

Ouery:

select distinct Pcompany name from PlacementDrive;

Output:



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

Query:

update Training set T_fee=T_fee+(T_fee*0.15) where T_year=2019;

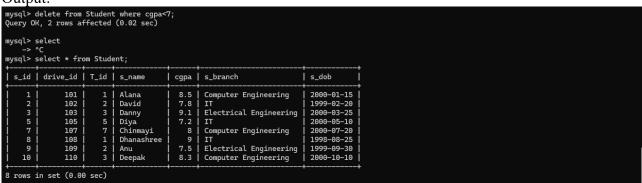
Output:

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

Query:

delete from Student where cgpa<7;

Output:



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

Query:

select Pcompany name from PlacementDrive where location='Pune' or location='Mumbai';

Output:

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

Query:

SELECT s.s_name, t.Tcompany_name, t.T_year AS training_year FROM Student s JOIN Training t ON s.T id = t.T id WHERE t.T year IN (2019, 2021);

Output:

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

Query for maximum cgpa:

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

Output:

```
mysql> SELECT s_name, CGPA FROM Student WHERE CGPA = (SELECT MAX(CGPA) FROM Student);
+-----+
| s_name | CGPA |
+-----+
| Danny | 9.1 |
+-----+
1 row in set (0.02 sec)
```

Query for cgpa between 7 to 9:

SELECT s_name, cgpa FROM Student WHERE cgpa BETWEEN 7 AND 9;

Output:



9. Display all Student name with T id with decreasing order of Fees

Query:

SELECT s.s_name, s.T_id, t.T_fee FROM Student s JOIN Training t ON s.T_id = t.T_id ORDER BY t.T_fee DESC;

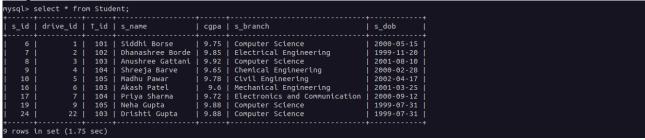
Output:

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

Query:

SELECT pd.Pcompany_name, s.s_name, pd.location, pd.package FROM PlacementDrive pd JOIN Student s ON pd.Drive_id = s.Drive_id WHERE pd.package=30000 or pd.package=40000 or pd.package=50000;

Output:



Drive_id Pcompany_na	me package	location	
1 ABC Technol 2 XYZ Corpora 3 Tech Innova 4 Global Solu 5 Data Expert 6 XYZ Corpora 7 Persistent	tion 750000 tors Inc. 900000 tions Ltd. 700000 s LLC 850000 tion 800000	New York New York San Francisco Seattle London Bangalore	
rows in set (0.00 sec) sql> SELECT pd.Pcompan r pd.package=700000;			ackage FROM PlacementDrive pd JOIN Student s ON pd.Drive_id = s.Drive_id WHERE pd.package=800000 or pd.package=9
sql> SELECT pd.Pcompan	y_name, s.s_name, pd + s_name		