

ASSIGNMENT 3

Roll No: 31448

1. Find the Student details and Placement details using NATURAL JOIN.

SELECT * FROM Student NATURAL JOIN PlacementDrive;

Drive_id	s_id	T_id	s_name	CGPA	s_branch	S_dob	Pcompany_name	package	location
1	87	239	Sakshi Kulkarni	8.90	CSE	2002-03-15	Google	1200000.00	Bangalore
2	12	202	Tanvi Deshmukh	9.10	IT	2003-10-10	Amazon	1100000.00	Hyderabad
2	17	202	Harshad Joshi	9.30	ECE	2001-12-12	Amazon	1100000.00	Hyderabad
2	112	204	Yug Mehta	6.90	IT	2003-09-15	Amazon	1100000.00	Hyderabad
3	13	203	Yash Patil	7.80	ECE	2001-11-20	Microsoft	1150000.00	Noida
3	18	203	Rutuja Pawar	8.90	EEE	2003-01-05	Microsoft	1150000.00	Noida
4	14	204	Snehal Rane	8.40	EEE	2002-06-25	Accenture	600000.00	Pune
4	19	204	Nikhil Gaikwad	8.20	CSE	2002-09-14	Accenture	600000.00	Pune
4	22	204	Jui Gaikwad	8.50	CSE	2002-09-18	Accenture	600000.00	Pune
5	15	205	Omkar Shinde	8.00	CSE	2003-02-18	IBM	400000.00	Mumbai
5	20	205	Vidya More	8.70	IT	2001-05-09	IBM	400000.00	Mumbai
5	29	205	Shantanu Wable	9.70	ENTC	2001-04-09	IBM	400000.00	Mumbai
5	32	219	Shantanu Wable	9.70	ENTC	2001-04-09	IBM	400000.00	Mumbai
5	33	218	Shantanu Wable	9.70	ENTC	2001-04-09	IBM	400000.00	Mumbai
6	21	205	Sangita Devu	9.00	CSE	2002-04-04	Infosys	450000.00	Pune
9	23	204	Saket Manjrekar	8.50	CSE	2003-09-18	JP Morgan	500000.00	Noida
9	24	203	Monika Gupta	9.80	IT	2005-09-12	JP Morgan	500000.00	Noida

2. Find all the student details with company_name who have conducted in same drive

SELECT s.*,p.Pcompany_name FROM Student s JOIN PlacementDrive p ON p.Drive_id = s.Drive_id;

s_id	Drive_id	T_id	s_name	CGPA	s_branch	S_dob	Pcompany_name
87	1	239	Sakshi Kulkarni	8.90	CSE	2002-03-15	Google
12	2	202	Tanvi Deshmukh	9.10	IT	2003-10-10	Amazon
17	2	202	Harshad Joshi	9.30	ECE	2001-12-12	Amazon
112	2	204	Yug Mehta	6.90	IT	2003-09-15	Amazon
13	3	203	Yash Patil	7.80	ECE	2001-11-20	Microsoft
18	3	203	Rutuja Pawar	8.90	EEE	2003-01-05	Microsoft
14	4	204	Snehal Rane	8.40	EEE	2002-06-25	Accenture
19	4	204	Nikhil Gaikwad	8.20	CSE	2002-09-14	Accenture
22	4	204	Jui Gaikwad	8.50	CSE	2002-09-18	Accenture
15	5	205	Omkar Shinde	8.00	CSE	2003-02-18	IBM
20	5	205	Vidya More	8.70	IT	2001-05-09	IBM
29	5	205	Shantanu Wable	9.70	ENTC	2001-04-09	IBM
32	5	219	Shantanu Wable	9.70	ENTC	2001-04-09	IBM
33	5	218	Shantanu Wable	9.70	ENTC	2001-04-09	IBM
21	6	205	Sangita Devu	9.00	CSE	2002-04-04	Infosys
23	9	204	Saket Manjrekar	8.50	CSE	2003-09-18	JP Morgan
24	9	203	Monika Gupta	9.80	IT	2005-09-12	JP Morgan

3. List all the Student name and Student branch of Student having package 5 LPA

SELECT s_name,s_branch from Student s JOIN PlacementDrive p ON p.Drive_id = s.Drive_id
WHERE p.package=500000;

s_name	s_branch
Saket Manjrekar	CSE
Monika Gupta	IT

4. List all the student names ,company_name having T_fee more than 20000

SELECT s_name,t.Tcompany_name FROM Student s JOIN Training t ON s.T_id=t.T_id WHERE
t.T_Fee>20000;

s_name	Tcompany_name
Omkar Shinde	Skillshare
Vidya More	Skillshare
Sangita Devu	Skillshare
Shantanu Wable	Skillshare

5. Display all training details attended by “shantanu” in year 2011

```
SELECT t.* FROM Training t JOIN Student s ON t.t_id = s.t_id WHERE s.s_name LIKE "Shantanu%" AND t.t_year=2011;
```

// i should have taken date as 2022-06-9 but i just took year, YEAR(t.t_date)=2011 my field is also t_year instead of t_date

T_id	Tcompany_name	T_Fee	T_year
219	Growup	10000.00	2011
218	Career	5000.00	2011

6. list the total number of companies who conduct training before 2015

```
SELECT COUNT(DISTINCT Tcompany_name) AS Company_count FROM Training WHERE t_year<2015;
```

Company_count
8

7. List the students name with company ‘Microsoft’ and location ‘Thane’

```
SELECT s.s_name FROM Student s JOIN PlacementDrive p ON p.Drive_id=s.Drive_id WHERE p.Pcompany_name = "Microsoft" AND p.location = "Thane";
```

s_name
Sakshi Kulkarni

8. Find the names of all Students who have joined ‘Microsoft ‘ training in 2015 .

```
SELECT s.s_name FROM Student s JOIN Training t ON s.T_id = t.T_id WHERE t.Tcompany_name = 'Microsoft' AND t.T_year = 2015;
```

s_name
Sakshi Kulkarni

9. Create a view showing the Student and Training details.

```
CREATE VIEW stud_training AS SELECT s.s_id,s.s_name,t.Tcompany_name,t.T_Fee FROM Student s JOIN Training t ON s.T_id = t.T_id;
SELECT * FROM stud_training
```

s_id	s_name	Tcompany_name	T_Fee
11	Soham Kulkarni	Scaler	5000.00
12	Tanvi Deshmukh	GeeksforGeeks	4000.00
13	Yash Patil	GreatLearning	3500.00
14	Snehal Rane	edX	6000.00
15	Omkar Shinde	Skillshare	30000.00
16	Aishwarya Nair	Scaler	5000.00
17	Harshad Joshi	GeeksforGeeks	4000.00
18	Rutuja Pawar	GreatLearning	3500.00
19	Nikhil Gaikwad	edX	6000.00
20	Vidya More	Skillshare	30000.00
21	Sangita Devu	Skillshare	30000.00
22	jui Gaikwad	edX	6000.00
23	Saket Manjrekar	edX	6000.00
24	Monika Gupta	GreatLearning	3500.00
29	Shantanu Wable	Skillshare	30000.00
32	Shantanu Wable	Growup	10000.00
33	Shantanu Wable	Career	5000.00
60	Sonali Kulkarni	Scaler	5000.00
87	Sakshi Kulkarni	MicroSoft	5000.00
111	Saisha Mode	Scaler	5000.00
112	Yug Mehta	edX	6000.00

10. Perform Manipulation on simple view-Insert, update, delete, drop view.

Note: inorder to manipulate view there are rule:

1. Single table(No join)
2. All not null value.
3. No complex or subquery.

CREATE:

```
CREATE VIEW training_view AS SELECT T_id,Tcompany_name,T_Fee,T_year FROM
Training;
SELECT * FROM training_view;
```

T_id	Tcompany_name	T_Fee	T_year
101	Manchester	2000.00	2002
102	Skills	8000.00	2005
201	Scaler	5000.00	2023
202	GeeksforGeeks	4000.00	2022
203	GreatLearning	4000.00	2024
204	edX	6000.00	2023
205	Skillshare	30000.00	2022
206	Upskill	21000.00	2024
207	Unstop	22000.00	2023
208	CodeBase	10000.00	2013
209	Skillup	10000.00	2012
218	Career	5000.00	2011
219	Growup	10000.00	2011
239	MicroSoft	5000.00	2015

INSERT:

```
INSERT INTO training_view(T_id,Tcompany_name,T_Fee,T_year) VALUES  
(101,'hustle',2000,2002),  
(102,'liftup',8000,2005);  
SELECT * FROM training_view;
```

T_id	Tcompany_name	T_Fee	T_year
101	Manchester	2000.00	2002
102	Skills	8000.00	2005
182	liftup	8000.00	2005
191	hustle	2000.00	2002
201	Scaler	5000.00	2023
202	GeeksforGeeks	4000.00	2022
203	GreatLearning	4000.00	2024
204	edX	6000.00	2023
205	Skillshare	30000.00	2022
206	Upskill	21000.00	2024
207	Unstop	22000.00	2023
208	CodeBase	10000.00	2013
209	Skillup	10000.00	2012
218	Career	5000.00	2011
219	Growup	10000.00	2011
239	MicroSoft	5000.00	2015

UPDATE:

```
SELECT * FROM training_view WHERE Tcompany_name = "Scaler";
```

T_id	Tcompany_name	T_Fee	T_year
201	Scaler	5000.00	2023

```
UPDATE training_view SET T_Fee=10000 WHERE Tcompany_name ="Scaler";  
SELECT * FROM training_view WHERE Tcompany_name = "Scaler";
```

T_id	Tcompany_name	T_Fee	T_year
201	Scaler	10000.00	2023

DELETE:

```
SELECT * FROM training_view WHERE Tcompany_name = "Scaler";
```

T_id	Tcompany_name	T_Fee	T_year
201	Scaler	10000.00	2023

```
DELETE FROM training_view WHERE Tcompany_name = "Scaler";
```

```
SELECT * FROM training_view WHERE Tcompany_name = "Scaler";
```

Empty set (0.001 sec)

DROP:

```
DROP view training_view;
```

```
SELECT * FROM training_view;
```

ERROR 1146 (42S02): Table 'te31448_db.training_view' doesn't exist

JOINS**1. INNER JOINS**

```
SELECT p.Drive_id,s_name,CGPA,s_branch,Pcompany_name,package FROM
Student s INNER JOIN PlacementDrive p ON s.Drive_id=p.Drive_id;
```

Drive_id	s_name	CGPA	s_branch	Pcompany_name	package
1	Sakshi Kulkarni	8.90	CSE	Google	1200000.00
2	Tanvi Deshmukh	9.10	IT	Amazon	1100000.00
2	Harshad Joshi	9.30	ECE	Amazon	1100000.00
2	Yug Mehta	6.90	IT	Amazon	1100000.00
3	Yash Patil	7.80	ECE	Microsoft	1150000.00
3	Rutuja Pawar	8.90	EEE	Microsoft	1150000.00
4	Snehal Rane	8.40	EEE	Accenture	600000.00
4	Nikhil Gaikwad	8.20	CSE	Accenture	600000.00
4	jui Gaikwad	8.50	CSE	Accenture	600000.00
5	Omkar Shinde	8.00	CSE	IBM	400000.00
5	Vidya More	8.70	IT	IBM	400000.00
5	Shantanu Wable	9.70	ENTC	IBM	400000.00
5	Shantanu Wable	9.70	ENTC	IBM	400000.00
5	Shantanu Wable	9.70	ENTC	IBM	400000.00
6	Sangita Devu	9.00	CSE	Infosys	450000.00
9	Saket Manjrekar	8.50	CSE	JP Morgan	500000.00
9	Monika Gupta	9.80	IT	JP Morgan	500000.00

2. LEFT JOIN

```
SELECT s.s_name,p.Pcompany_name AS Placement_Company, t.Tcompany_name  
AS Training_Company FROM Student s LEFT JOIN PlacementDrive p ON  
s.Drive_id=p.Drive_id LEFT JOIN Training t ON s.T_id = t.T_id;
```

s_name	Placement_Company	Training_Company
Tanvi Deshmukh	Amazon	GeeksforGeeks
Yash Patil	Microsoft	GreatLearning
Snehal Rane	Accenture	edX
Omkar Shinde	IBM	Skillshare
Harshad Joshi	Amazon	GeeksforGeeks
Rutuja Pawar	Microsoft	GreatLearning
Nikhil Gaikwad	Accenture	edX
Vidya More	IBM	Skillshare
Sangita Devu	Infosys	Skillshare
jui Gaikwad	Accenture	edX
Saket Manjrekar	JP Morgan	edX
Monika Gupta	JP Morgan	GreatLearning
Shantanu Wable	IBM	Skillshare
Shantanu Wable	IBM	Growup
Shantanu Wable	IBM	Career
Sakshi Kulkarni	Google	MicroSoft
Yug Mehta	Amazon	edX

3. RIGHT JOIN

```
SELECT t.Tcompany_name, COUNT(s.s_id) AS Total_students FROM Student s  
RIGHT JOIN Training t ON s.T_id =t.T_id GROUP BY t.Tcompany_name;
```

Tcompany_name	Total_students
Career	1
CodeBase	0
edX	5
GeeksforGeeks	2
GreatLearning	3
Growup	1
hustle	0
liftup	0
Manchester	0
MicroSoft	1
Skills	0
Skillshare	4
Skillup	0
Unstop	0
Upskill	0

4.SELF JOIN

SELECT A.s_name as Student1, B.s_name AS Student2 FROM Student A, Student B
WHERE A.s_name<>B.s_name AND A.s_branch=B.s_branch AND
A.CGPA=B.CGPA ORDER BY A.s_branch;

Student1	Student2
Saket Manjrekar	jui Gaikwad
jui Gaikwad	Saket Manjrekar