# **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;

+	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

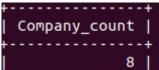
SELECT t.\* FROM Training t JOIN Student s ON t.t\_id = s.t\_id WHERE s.s\_name LIKE "Shantanu%" AND t.t\_year=2011;

// 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_year
219	Growup	10000.00   5000.00	2011     2011

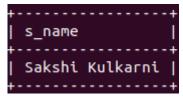
# 6. list the total number of companies who conduct training before 2015

SELECT COUNT(DISTINCT Tcompany\_name) AS Company\_count FROM Training WHERE t\_year<2015;



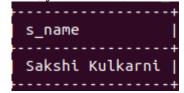
#### 7. List the students name with company 'Microsoft' and location 'Thane'

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";



# 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;



#### 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 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 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:**

 $\label{lem:creation} CREATE\ VIEW\ training\_view\ AS\ SELECT\ T\_id, Tcompany\_name, T\_Fee, T\_year\ FROM\ Training;$ 

SELECT \* FROM training\_view;

T_id   Tcompany_name   T_Fee
102   Skills
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
202   GeeksforGeeks   4000.00   2022   203   GreatLearning   4000.00   2024   204   edX   6000.00   2023   205   Skillshare   30000.00   2022
203   GreatLearning   4000.00   2024   204   edX
204   edX
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";

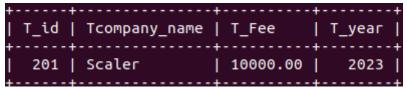
	Tcompany_name		
201		+   5000.00   +	•

UPDATE training\_view SET T\_Fee=10000 WHERE Tcompany\_name = "Scaler"; SELECT \* FROM training\_view WHERE Tcompany\_name = "Scaler";

+	+	+	++
. –	Tcompany_name	_	T_year
•		10000.00	
+		+	+

#### **DELETE:**

SELECT \* FROM training\_view WHERE Tcompany\_name = "Scaler";



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	ame   CGP	PA   s_branch	Pcompany_name	package
1   Sak 2   Tan 2   Har 2   Yug 3   Yas 3   Rut 4   Sne 4   Nik 4   jui 5   Omk 5   Vid	shi Kulkarni   8.9 vi Deshmukh   9.1 shad Joshi   9.3 Mehta   6.9 h Patil   7.8 uja Pawar   8.9 hal Rane   8.4 hil Gaikwad   8.2 Gaikwad   8.5 ar Shinde   8.7 ntanu Wable   9.7	00   CSE 00   IT 00   ECE 00   IT 00   ECE 00   EEE 00   EEE 00   CSE 00   CSE 00   CSE	Google Amazon Amazon Microsoft Microsoft Accenture Accenture IBM IBM	1200000.00   1100000.00   1100000.00   1100000.00   1150000.00   600000.00   600000.00   600000.00   400000.00   400000.00
5   Sha   6   San   9   Sak	ntanu Wable   9.7 ntanu Wable   9.7 gita Devu   9.0 et Manjrekar   8.5 ika Gupta   9.8	70   ENTC   00   CSE   60   CSE	IBM   IBM   Infosys   JP Morgan   JP Morgan	400000.00   400000.00   450000.00   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
l 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;

