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ROLL NO - 31114
CLASS - TE 1
SUBJECT - DBMS
DATE - 07/08/23
Assignment No - 03 B

-----START-----

SHOW DATABASES;

```
+-----+
| Database          |
+-----+
| 31114_db          |
| information_schema |
+-----+
```

USE 31114_db;

CREATE TABLE Training_2B (T_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
Tcompany_name VARCHAR(255), T_fee INT, T_date DATE);

ALTER TABLE Training_2B MODIFY T_date INT;

CREATE TABLE Placement_Drive_2B (Drive_id INT NOT NULL AUTO_INCREMENT PRIMARY
KEY, Company_name VARCHAR(255), Package INT, Location VARCHAR(255));

CREATE TABLE Student_2B (S_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, Drive_id
INT, S_name VARCHAR(255), CGPA FLOAT, S_branch VARCHAR(255), FOREIGN KEY
(Drive_id) REFERENCES Placement_Drive_2B(Drive_id) ON DELETE CASCADE);

SHOW TABLES;

```
+-----+
| Tables_in_31114_db |
+-----+
| Placement_Drive_2B |
| Student_2B         |
| Training_2B        |
+-----+
```

MariaDB [31114_db]> SELECT * FROM Student_2B;

```
+-----+-----+-----+-----+-----+-----+
| S_id | Drive_id | S_name   | CGPA | S_branch | T_id |
+-----+-----+-----+-----+-----+-----+
| 1    | 21245    | Maitreyee | 9.5  | Comp     | 101  |
| 2    | 21246    | Kartiki   | 9.4  | Comp     | 102  |
| 4    | 21248    | Parag     | 9.5  | Comp     | 104  |
| 5    | 21249    | Divya     | 9.5  | Comp     | 105  |
| 6    | 21250    | Vedant    | 9.7  | Comp     | 106  |
| 7    | 21251    | Anushka   | 9.3  | Comp     | 107  |
| 8    | 21252    | Bhakti    | 9.7  | Comp     | 108  |
+-----+-----+-----+-----+-----+-----+
```

7 rows in set (0.001 sec)

MariaDB [31114_db]> SELECT * FROM Placement_Drive_2B;

```
+-----+-----+-----+-----+
| Drive_id | Company_name | Package | Location |
+-----+-----+-----+-----+
| 21245    | DELL         | 200000  | Pune     |
| 21246    | APPLE        | 400000  | Mumbai   |
| 21247    | BARCLAYS     | 300000  | Bengaluru |
+-----+-----+-----+-----+
```

21248	PFIZER	400000	Hyderabad
21249	INFOSYS	450000	Mumbai
21250	DB	540000	Pune
21251	PHONEPE	340000	Chennai
21252	SAMSUNG	650000	Delhi
21253	FACEBOOK	250000	Delhi

9 rows in set (0.001 sec)

MariaDB [31114_db]> SELECT * FROM Training_2B;

T_id	Tcompany_name	T_fee	T_date
100	INFOSYS	11500	2021
101	VERZEO	10500	2020
102	GOOGLE	23000	2021
103	MERINO	5000	2022
104	COGNIZANT	7600	2020
105	KODEIT	7521	2021
106	CUMMINS	4300	2022
107	SIEMENS	11270	2021
108	MASTERCARD	6500	2020
109	APPLE	7475	2021

10 rows in set (0.001 sec)

Query - 1

MariaDB [31114_db]> SELECT * FROM Student_2B NATURAL JOIN Placement_Drive_2B;

Drive_id	S_id	S_name	CGPA	S_branch	T_id	Company_name	Package
21245	1	Maitreyee	9.5	Comp	101	DELL	200000
21246	2	Kartiki	9.4	Comp	102	APPLE	400000
21248	4	Parag	9.5	Comp	104	PFIZER	400000
21249	5	Divya	9.5	Comp	105	INFOSYS	450000
21250	6	Vedant	9.7	Comp	106	DB	540000
21251	7	Anushka	9.3	Comp	107	PHONEPE	340000
21252	8	Bhakti	9.7	Comp	108	SAMSUNG	650000

7 rows in set (0.001 sec)

Query - 2

MariaDB [31114_db]> SELECT s.S_name, p.Company_name FROM Student_2B s INNER JOIN Placement_Drive_2B p using(Drive_id);

S_name	Company_name
Maitreyee	DELL
Kartiki	APPLE
Parag	PFIZER
Divya	INFOSYS

Vedant	DB
Anushka	PHONEPE
Bhakti	SAMSUNG

7 rows in set (0.001 sec)

Query - 3

```
MariaDB [31114_db]> SELECT s.S_name, s.S_branch FROM Student_2B s RIGHT JOIN
Placement_Drive_2B p using(Drive_id) WHERE p.Package = 400000;
```

S_name	S_branch
Kartiki	Comp
Parag	Comp

2 rows in set (0.562 sec)

Query - 4

```
MariaDB [31114_db]> SELECT s.S_name, p.Company_name FROM Student_2B s LEFT JOIN
Placement_Drive_2B p using(Drive_id) INNER JOIN Training_2B t using(T_id) WHERE
T_fee > 1000;
```

S_name	Company_name
Maitreyee	DELL
Kartiki	APPLE
Parag	PFIZER
Divya	INFOSYS
Vedant	DB
Anushka	PHONEPE
Bhakti	SAMSUNG

7 rows in set (0.001 sec)

Query - 5

```
MariaDB [31114_db]> SELECT t.* FROM Student_2B s INNER JOIN Training_2B t
using(T_id) WHERE s.S_name = "Anushka" AND T_date = 2021;
```

T_id	Tcompany_name	T_fee	T_date
107	SIEMENS	11270	2021

1 row in set (0.001 sec)

Query - 6

```
MariaDB [31114_db]> SELECT count(Tcompany_name) company_count FROM Training_2B
WHERE T_date < 2021 ;
```

company_count
3

1 row in set (0.001 sec)

Query - 7

```
MariaDB [31114_db]> SELECT S_name FROM Student_2B INNER JOIN (SELECT * FROM
Placement_Drive_2B WHERE Company_name = "PHONEPE" AND Location = "Chennai") p
using(Drive_id);
```

```
+-----+
| S_name |
+-----+
| Anushka |
+-----+
1 row in set (0.001 sec)
```

```
MariaDB [31114_db]> SELECT S_name FROM Student_2B INNER JOIN Placement_Drive_2B
p using(Drive_id) WHERE p.Company_name = "PHONEPE" AND p.Location =
"Maharashtra";
Empty set (0.001 sec)
```

Query - 8

```
MariaDB [31114_db]> SELECT S_name FROM Student_2B INNER JOIN (SELECT * FROM
Training_2B WHERE Tcompany_name = "SIEMENS" AND T_date = "2021") t using(T_id);
+-----+
| S_name |
+-----+
| Anushka |
+-----+
1 row in set (0.001 sec)
```

```
MariaDB [31114_db]> SELECT S_name FROM Student_2B INNER JOIN (SELECT * FROM
Training_2B WHERE Tcompany_name = "Mastercard" AND T_date = "2020") t
using(T_id);
Empty set (0.001 sec)
```

Query - 9

```
MariaDB [31114_db]> CREATE VIEW Student_Information AS SELECT * FROM Student_2B
s INNER JOIN Training_2B t using(T_id);
Query OK, 0 rows affected (1.674 sec)
```

```
MariaDB [31114_db]> Select * FROM Student_Information;
+-----+-----+-----+-----+-----+-----+-----+-----+
| T_id | S_id | Drive_id | S_name | CGPA | S_branch | Tcompany_name | T_fee |
T_date |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | 1 | 21245 | Maitreyee | 9.5 | Comp | VERZEO | 10500 |
2020 |
| 102 | 2 | 21246 | Kartiki | 9.4 | Comp | GOOGLE | 23000 |
2021 |
| 104 | 4 | 21248 | Parag | 9.5 | Comp | COGNIZANT | 7600 |
2020 |
| 105 | 5 | 21249 | Divya | 9.5 | Comp | KODEIT | 7521 |
2021 |
| 106 | 6 | 21250 | Vedant | 9.7 | Comp | CUMMINS | 4300 |
2022 |
| 107 | 7 | 21251 | Anushka | 9.3 | Comp | SIEMENS | 11270 |
2021 |
| 108 | 8 | 21252 | Bhakti | 9.7 | Comp | MASTERCARD | 6500 |
2020 |
+-----+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.002 sec)
```

```
MariaDB [31114_db]> DROP VIEW Student_Information;
Query OK, 0 rows affected (0.001 sec)
```

```
MariaDB [31114_db]> Select * FROM Student_Information;
ERROR 1146 (42S02): Table '31114_db.Student_Information' doesn't exist
```

Query - 10

Complex view creation -

```
MariaDB [31114_db]> CREATE VIEW Student_Details AS SELECT s.S_name,  
p.Company_name, t.Tcompany_name FROM Student_2B s INNER JOIN Placement_Drive_2B  
p using(Drive_id) INNE  
Query OK, 0 rows affected (0.033 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_Details;
```

S_name	Company_name	Tcompany_name
Maitreyee	DELL	VERZEO
Kartiki	APPLE	GOOGLE
Parag	PFIZER	COGNIZANT
Divya	INFOSYS	KODEIT
Vedant	DB	CUMMINS
Anushka	PHONEPE	SIEMENS
Bhakti	SAMSUNG	MASTERCARD

7 rows in set (0.001 sec)

Simple view creation -

```
MariaDB [31114_db]> CREATE VIEW Student_data AS SELECT S_name, S_branch FROM  
Student_2B WHERE S_branch = "Comp";  
Query OK, 0 rows affected (0.058 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_name	S_branch
Maitreyee	Comp
Kartiki	Comp
Parag	Comp
Divya	Comp
Vedant	Comp
Anushka	Comp
Bhakti	Comp

7 rows in set (0.001 sec)

Simple view update columns -

```
MariaDB [31114_db]> CREATE OR REPLACE VIEW Student_data AS SELECT s.S_name,  
s.S_branch, s.CGPA FROM Student_2B s;  
Query OK, 0 rows affected (0.025 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_name	S_branch	CGPA
Maitreyee	Comp	9.5
Kartiki	Comp	9.4
Parag	Comp	9.5
Divya	Comp	9.5
Vedant	Comp	9.7
Anushka	Comp	9.3
Bhakti	Comp	9.7

7 rows in set (0.001 sec)

Simple view deletion -

```
MariaDB [31114_db]> DELETE FROM Student_data WHERE CGPA > 9.5;
Query OK, 2 rows affected (0.075 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_name	S_branch	CGPA
Maitreyee	Comp	9.5
Kartiki	Comp	9.4
Parag	Comp	9.5
Divya	Comp	9.5
Anushka	Comp	9.3

5 rows in set (0.001 sec)

Simple view insertion -

```
MariaDB [31114_db]> CREATE OR REPLACE VIEW Student_data AS SELECT * FROM
Student_2B s;
Query OK, 0 rows affected (0.033 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_id	Drive_id	S_name	CGPA	S_branch	T_id
1	21245	Maitreyee	9.5	Comp	101
2	21246	Kartiki	9.4	Comp	102
4	21248	Parag	9.5	Comp	104
5	21249	Divya	9.5	Comp	105
7	21251	Anushka	9.3	Comp	107

5 rows in set (0.001 sec)

```
MariaDB [31114_db]> INSERT INTO Student_data VALUES (10, 21250, "Kishanlal",
9.8, "Comp", 106);
Query OK, 1 row affected (0.034 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_id	Drive_id	S_name	CGPA	S_branch	T_id
1	21245	Maitreyee	9.5	Comp	101
2	21246	Kartiki	9.4	Comp	102
4	21248	Parag	9.5	Comp	104
5	21249	Divya	9.5	Comp	105
7	21251	Anushka	9.3	Comp	107
10	21250	Kishanlal	9.8	Comp	106

6 rows in set (0.001 sec)

Simple view updation -

```
MariaDB [31114_db]> UPDATE Student_data SET S_name = "Abhishek" WHERE s_id = 10;
Query OK, 1 row affected (0.032 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [31114_db]> SELECT * FROM Student_data;
```

S_id	Drive_id	S_name	CGPA	S_branch	T_id
1	21245	Maitreyee	9.5	Comp	101
2	21246	Kartiki	9.4	Comp	102

	4		21248		Parag		9.5		Comp		104	
	5		21249		Divya		9.5		Comp		105	
	7		21251		Anushka		9.3		Comp		107	
	10		21250		Abhishek		9.8		Comp		106	

+-----+-----+-----+-----+-----+-----+

6 rows in set (0.001 sec)

Simple view drop view -

MariaDB [31114_db]> DROP VIEW Student_data;

Query OK, 0 rows affected (0.001 sec)

MariaDB [31114_db]> SELECT * FROM Student_data;

ERROR 1146 (42S02): Table '31114_db.Student_data' doesn't exist

END-----