

NAME - Kishanlal Choudhary
ROLL NO - 31114
CLASS - TE 1
SUBJECT - DBMS
DATE - 31/07/23
Assignment No - 02 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]> DESC Student_2B;

Field	Type	Null	Key	Default	Extra
S_id	int(11)	NO	PRI	NULL	auto_increment
Drive_id	int(11)	YES	MUL	NULL	
S_name	varchar(255)	YES		NULL	
CGPA	float	YES		NULL	
S_branch	varchar(255)	YES		NULL	

MariaDB [31114_db]> DESC Placement_Drive_2B;

Field	Type	Null	Key	Default	Extra
Drive_id	int(11)	NO	PRI	NULL	auto_increment

Company_name	varchar(255)	YES		NULL	
Package	int(11)	YES		NULL	
Location	varchar(255)	YES		NULL	

MariaDB [31114_db]> DESC Training_2B;

Field	Type	Null	Key	Default	Extra
T_id	int(11)	NO	PRI	NULL	auto_increment
Tcompany_name	varchar(255)	YES		NULL	
T_fee	int(11)	YES		NULL	
T_date	int(11)	YES		NULL	

MariaDB [31114_db]> INSERT INTO Placement_Drive_2B VALUES

```
-> (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');
```

MariaDB [31114_db]> INSERT INTO Student_2B VALUES

```
-> (1, 21245, 'Maitreyee', 9.50, 'Comp'),
-> (2, 21246, 'Kartiki', 9.40, 'Comp'),
-> (3, 21247, 'Mandar', 9.20, 'Comp'),
-> (4, 21248, 'Parag', 9.50, 'Comp'),
-> (5, 21249, 'Divya', 9.50, 'Comp'),
-> (6, 21250, 'Vedant', 9.70, 'Comp'),
-> (7, 21251, 'Anushka', 9.30, 'Comp'),
-> (8, 21252, 'Bhakti', 9.70, 'Comp'),
-> (9, 21253, 'Arun', 8.60, 'Comp');
```

MariaDB [31114_db]> INSERT INTO Training_2B VALUES

```
-> (100, 'INFOSYS', 10000, 2021),
-> (101, 'VERZEO', 10500, 2020),
-> (102, 'GOOGLE', 20000, 2021),
-> (103, 'MERINO', 5000, 2022),
-> (104, 'COGNIZANT', 7600, 2020),
-> (105, 'KODEIT', 6540, 2021),
-> (106, 'CUMMINS', 4300, 2022),
-> (107, 'SIEMENS', 9800, 2021),
-> (108, 'MASTERCARD', 6500, 2020),
-> (109, 'APPLE', 6500, 2021);
```

```
INSERT INTO Placement_Drive_2B VALUES (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');
```

```
INSERT INTO Student_2B VALUES (1, 21245, 'Maitreyee', 9.50, 'Comp'), (2, 21246,
'Kartiki', 9.40, 'Comp'), (3, 21247, 'Mandar', 9.20, 'Comp'), (4, 21248, 'Parag',
9.50, 'Comp'), (5, 21249, 'Divya', 9.50, 'Comp'), (6, 21250, 'Vedant', 9.70,
'Comp'), (7, 21251, 'Anushka', 9.30, 'Comp'), (8, 21252, 'Bhakti', 9.70, 'Comp'),
```

```
(9, 21253, 'Arun', 8.60, 'Comp');
```

```
INSERT INTO Training_2B VALUES (100, 'INFOSYS', 10000, 2021), (101, 'VERZEO', 10500, 2020), (102, 'GOOGLE', 20000, 2021), (103, 'MERINO', 5000, 2022), (104, 'COGNIZANT', 7600, 2020), (105, 'KODEIT', 6540, 2021), (106, 'CUMMINS', 4300, 2022), (107, 'SIEMENS', 9800, 2021), (108, 'MASTERCARD', 6500, 2020), (109, 'APPLE', 6500, 2021);
```

```
MariaDB [31114_db]> SELECT * FROM Student_2B;
```

S_id	Drive_id	S_name	CGPA	S_branch
1	21245	Maitreyee	9.5	Comp
2	21246	Kartiki	9.4	Comp
3	21247	Mandar	9.2	Comp
4	21248	Parag	9.5	Comp
5	21249	Divya	9.5	Comp
6	21250	Vedant	9.7	Comp
7	21251	Anushka	9.3	Comp
8	21252	Bhakti	9.7	Comp
9	21253	Arun	8.6	Comp

```
9 rows in set (0.001 sec)
```

```
MariaDB [31114_db]> SELECT * FROM Training_2B;
```

T_id	Tcompany_name	T_fee	T_date
100	INFOSYS	10000	2021
101	VERZEO	10500	2020
102	GOOGLE	20000	2021
103	MERINO	5000	2022
104	COGNIZANT	7600	2020
105	KODEIT	6540	2021
106	CUMMINS	4300	2022
107	SIEMENS	9800	2021
108	MASTERCARD	6500	2020
109	APPLE	6500	2021

```
10 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)
```

Query - 2

```

MariaDB [31114_db]> SELECT * FROM Student_2B WHERE S_branch IN ('Comp', 'IT') AND
(S_name LIKE '%A' OR S_name LIKE '%D');
+-----+-----+-----+-----+-----+
| S_id | Drive_id | S_name | CGPA | S_branch |
+-----+-----+-----+-----+
| 5 | 21249 | Divya | 9.5 | Comp |
| 7 | 21251 | Anushka | 9.3 | Comp |
+-----+-----+-----+-----+
EXEC sys.sp_helpindex @objname =
N'CUSTOMERS';
2 rows in set (0.001 sec)

```

Query - 3

```

MariaDB [31114_db]> SELECT DISTINCT Company_name FROM Placement_Drive_2B;
+-----+
| Company_name |
+-----+
| DELL |
| APPLE |
| BARCLAYS |
| PFIZER |
| INFOSYS |
| DB |
| PHONEPE |
| SAMSUNG |
| FACEBOOK |
+-----+
9 rows in set (0.001 sec)

```

Query - 4

```

MariaDB [31114_db]> UPDATE Training_2B SET T_fee = T_fee * 1.15 WHERE T_date =
2021;
Query OK, 5 rows affected (0.025 sec)
Rows matched: 5 Changed: 5 Warnings: 0

```

```

MariaDB [31114_db]> SELECT * FROM Training_2B WHERE T_date = 2021;
+-----+-----+-----+-----+
| T_id | Tcompany_name | T_fee | T_date |
+-----+-----+-----+-----+
| 100 | INFOSYS | 11500 | 2021 |
| 102 | GOOGLE | 23000 | 2021 |
| 105 | KODEIT | 7521 | 2021 |
| 107 | SIEMENS | 11270 | 2021 |
| 109 | APPLE | 7475 | 2021 |
+-----+-----+-----+-----+
5 rows in set (0.001 sec)

```

Query - 5

```

MariaDB [31114_db]> DELETE FROM Student_2B WHERE CGPA < 9.3;
Query OK, 2 rows affected (0.035 sec)

```

```

MariaDB [31114_db]> SELECT * FROM Student_2B;
+-----+-----+-----+-----+-----+
| S_id | Drive_id | S_name | CGPA | S_branch |
+-----+-----+-----+-----+-----+
| 1 | 21245 | Maitreyee | 9.5 | Comp |
| 2 | 21246 | Kartiki | 9.4 | Comp |
+-----+-----+-----+-----+-----+

```

4	21248	Parag	9.5	Comp
5	21249	Divya	9.5	Comp
6	21250	Vedant	9.7	Comp
7	21251	Anushka	9.3	Comp
8	21252	Bhakti	9.7	Comp

7 rows in set (0.001 sec)

Query - 6

```
MariaDB [31114_db]> SELECT Company_name FROM Placement_Drive_2B WHERE Location IN ('Pune', 'Mumbai');
```

Company_name
DELL
APPLE
INFOSYS
DB

4 rows in set (0.001 sec)

Query - 7

```
MariaDB [31114_db]> ALTER TABLE Student_2B ADD COLUMN T_id INT NOT NULL;
```

```
MariaDB [31114_db]> ALTER TABLE Student_2B ADD CONSTRAINT fk_T FOREIGN KEY (T_id) REFERENCES Training_2B(T_id);
```

```
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 s.S_name FROM Training_2B t INNER JOIN Student_2B s using(T_id) WHERE t.T_date IN (2022, 2020);
```

S_name
Maitreyee
Parag
Vedant
Bhakti

4 rows in set (0.001 sec)

Query - 8

```
MariaDB [31114_db]> SELECT * FROM Student_2B WHERE CGPA = (SELECT max(CGPA) FROM Student_2B);
```

```

+-----+-----+-----+-----+-----+
| S_id | Drive_id | S_name | CGPA | S_branch |
+-----+-----+-----+-----+-----+
| 6 | 21250 | Vedant | 9.7 | Comp |
| 8 | 21252 | Bhakti | 9.7 | Comp |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

```

```

MariaDB [31114_db]> SELECT S_name FROM Student_2B WHERE CGPA BETWEEN 9.2 AND 9.5;
+-----+
| S_name |
+-----+
| Maitreyee |
| Kartiki |
| Parag |
| Divya |
| Anushka |
+-----+
5 rows in set (0.001 sec)

```

Query - 9

```

MariaDB [31114_db]> SELECT * FROM Training_2B t INNER JOIN Student_2B s using(T_id)
ORDER BY t.T_fee DESC;
+-----+-----+-----+-----+-----+-----+-----+-----+
| T_id | Tcompany_name | T_fee | T_date | S_id | Drive_id | S_name | CGPA |
S_branch |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 102 | GOOGLE | 23000 | 2021 | 2 | 21246 | Kartiki | 9.4 | Comp |
| 107 | SIEMENS | 11270 | 2021 | 7 | 21251 | Anushka | 9.3 | Comp |
| 101 | VERZEO | 10500 | 2020 | 1 | 21245 | Maitreyee | 9.5 | Comp |
| 104 | COGNIZANT | 7600 | 2020 | 4 | 21248 | Parag | 9.5 | Comp |
| 105 | KODEIT | 7521 | 2021 | 5 | 21249 | Divya | 9.5 | Comp |
| 108 | MASTERCARD | 6500 | 2020 | 8 | 21252 | Bhakti | 9.7 | Comp |
| 106 | CUMMINS | 4300 | 2022 | 6 | 21250 | Vedant | 9.7 | Comp |
+-----+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.001 sec)

```

Query - 10

```

MariaDB [31114_db]> SELECT * FROM Placement_Drive_2B p INNER JOIN Student_2B s
using(Drive_id) WHERE p.Package IN (300000, 400000, 500000);
+-----+-----+-----+-----+-----+-----+-----+-----+
| Drive_id | Company_name | Package | Location | S_id | S_name | CGPA | S_branch |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 21246 | APPLE | 400000 | Mumbai | 2 | Kartiki | 9.4 | Comp |

```

	21248	PFIZER		400000	Hyderabad		4	Parag		9.5	Comp	
+	-----	+	-----	+	-----	+	-----	+	-----	+	-----	+
+												

Views

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	
+	-----	+	-----	+
	Maitreyee		DELL	
	Kartiki		APPLE	
	Parag		PFIZER	
	Divya		INFOSYS	
	Vedant		DB	
	Anushka		PHONEPE	
	Bhakti		SAMSUNG	
+	-----	+	-----	+

7 rows in set (0.001 sec)

INDEXING

MariaDB [31114_db]> CREATE UNIQUE INDEX Student_index ON Student_2B(S_id, S_name);
Query OK, 0 rows affected (0.199 sec)
Records: 0 Duplicates: 0 Warnings: 0

-----END-----