

## CSE370 : Database Systems

### Assignment-1 (01/02/03)| Fall 2024

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#### QUERY-1:

```
CREATE DATABASE Google_21201574;  
USE Google_21201574;
```

```
CREATE TABLE Developers (  
    member_id INT PRIMARY KEY,  
    name VARCHAR(50),  
    email VARCHAR(100),  
    influence_count INT,  
    Joining_date DATE,  
    multiplier INT  
);
```

```
+-----+  
| Database  
+-----+  
| cse370_lab1  
| google_21201574  
| information_schema  
| mysql  
| performance_schema  
| phpmyadmin  
| test  
+-----+  
7 rows in set (0.001 sec)  
  
MariaDB [(none)]> USE google_21201574;  
Database changed  
MariaDB [google_21201574]> CREATE TABLE Developers (  
    -> member_id INT PRIMARY KEY,  
    -> name VARCHAR(50),  
    -> email VARCHAR(100),  
    -> influence_count INT,  
    -> Joining_date DATE,  
    -> multiplier INT  
    -> );  
Query OK, 0 rows affected (0.024 sec)
```

## QUERY-2:

ALTER TABLE Developers

CHANGE influence\_count  
followers INT;

```
MariaDB [google_21201574]> ALTER TABLE Developers  
-> CHANGE influence_count followers INT;  
Query OK, 0 rows affected (0.022 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [google_21201574]> SELECT* FROM Developers;
```

member_id	name	email	followers	Joining_date	multiplier
1	Taylor Otwell	otwell@laravel.com	739360	2020-06-10	10

1 row in set (0.001 sec)

## Query-3:

UPDATE Developers

SET followers = followers + 10;

```
MariaDB [google_21201574]> UPDATE Developers  
-> SET followers= followers+10;  
Query OK, 11 rows affected (0.018 sec)  
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [google_21201574]> SELECT* FROM Developers;
```

#### QUERY-4:

```
ALTER TABLE Developers  
ADD Efficiency DECIMAL(5, 2);
```

```
UPDATE Developers  
SET Efficiency = ((followers * 100.0 /  
1000000) * (multiplier * 100.0 / 20)) / 100;
```

```
MariaDB [google_21201574]> ALTER TABLE Developers  
-> ADD Efficiency DECIMAL(5, 2);  
Query OK, 0 rows affected (0.022 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [google_21201574]> UPDATE Developers;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds  
' ' at line 1  
MariaDB [google_21201574]> UPDATE Developers  
-> SET Efficiency = ((followers * 100.0 / 1000000) * (multiplier * 100.0 / 20)) / 100;  
Query OK, 11 rows affected, 11 warnings (0.015 sec)  
Rows matched: 11 Changed: 11 Warnings: 11  
  
MariaDB [google_21201574]> SELECT* FROM Developers;
```

### QUERY-5:

```
ALTER TABLE Developers  
ADD name_uppercase VARCHAR(50);
```

```
UPDATE Developers  
SET name_uppercase = UPPER(name);
```

```
SELECT *  
FROM Developers  
ORDER BY Joining_date DESC;
```

```
MariaDB [google_21201574]> SELECT UPPER(name) AS name_uppercase, Joining_date  
FROM Developers  
ORDER BY Joining_date DESC;
```

name_uppercase	Joining_date
GUIDO VAN ROSSUM	2020-07-18
EVAN YOU	2020-06-11
TAYLOR OTWELL	2020-06-10
RASMUS LERDORF	2020-06-03
JAMES GOSLING	2020-05-18
ROD JOHNSON	2020-05-18
SATOSHI NAKAMOTO	2020-05-10
BRENDAN EICH	2020-05-07
ADRIAN HOLOVATY	2020-05-07
SIMON WILLISON	2020-04-30
RYAN DAHL	2020-04-22

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

QUERY-6:

```
SELECT member_id, name, email, followers
FROM Developers
WHERE email LIKE '%.com' OR email LIKE '%.net';
```

```
MariaDB [google_21201574]> SELECT member_id, name, email,followers
-> FROM Developers
-> WHERE email LIKE '%.com' OR email LIKE '%.net';
```

member_id	name	email	followers
1	Taylor Otwell	otwell@laravel.com	739370
3	Brendan Eich	eich@javascript.com	939580
5	Rasmus Lerdorf	lerdorf@php.net	937937
7	Adrian Holovaty	adrian@djangoproject.com	570734
8	Simon Willison	simon@djangoproject.com	864625
9	James Gosling	james@java.com	719501
11	Satoshi Nakamoto	nakamoto@blockchain.com	630498

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

