CSE370 : Database Systems

Assignment 01 | Fall 2024

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No 1 Query (as Plain Text)	select * from lab_grades where name like 'a___';
| No 1 SS (of Query & Output in Shell) | ```
MariaDB [12345678_lab1]> select * from lab_grades where name like 'a___';
+--------+------+-------+---------+--------------+---------------+------+------------+
| std_id | name | major | section | days_present | project_marks | cgpa | sub_date   |
+--------+------+-------+---------+--------------+---------------+------+------------+
| s001   | Abir | CS    | 1       |           10 |          18.5 | 3.91 | 2018-09-15 |
+--------+------+-------+---------+--------------+---------------+------+------------+
1 row in set (0.000 sec)
``` |
| | |
| No 2 Query (as Plain Text) | CREATE TABLE Developers

(member_id int,

name varchar(30),

email varchar(100),

influence_count char(6),

joining_date date,

multiplier int); |

No 2 SS (of Query & Output in Shell)	

```
MariaDB [Google_22301206]> CREATE TABLE  Developers
    -> (
    ->      member_id int,
    ->      name varchar(30),
    ->      email varchar(100),
    ->      influence_count char(6),
    ->      joining_date date,
    ->      multiplier int
    ->
    -> );
Query OK, 0 rows affected (0.010 sec)

MariaDB [Google_22301206]> show tables;
+---------------------------+
| Tables_in_google_22301206 |
+---------------------------+
| developers                |
+---------------------------+
1 row in set (0.001 sec)

MariaDB [Google_22301206]> describe Developers;
+-----------------+--------------+------+-----+---------+-------+
| Field           | Type         | Null | Key | Default | Extra |
+-----------------+--------------+------+-----+---------+-------+
| member_id       | int(11)      | YES  |     | NULL    |       |
| name            | varchar(30)  | YES  |     | NULL    |       |
| email           | varchar(100) | YES  |     | NULL    |       |
| influence_count | char(6)      | YES  |     | NULL    |       |
| joining_date    | date         | YES  |     | NULL    |       |
| multiplier      | int(11)      | YES  |     | NULL    |       |
+-----------------+--------------+------+-----+---------+-------+
6 rows in set (0.021 sec)
```

No 3 Query **(as Plain Text)**	alter table Developers modify column influence_count int; alter table Developers change column influence_count followers int; select * from Developers;
| **No 3 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_22301206]> alter table Developers modify column influence_count int;
Query OK, 11 rows affected (0.035 sec)
Records: 11  Duplicates: 0  Warnings: 0

MariaDB [Google_22301206]> alter table Developers change column influence_count followers int;
Query OK, 0 rows affected (0.008 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [Google_22301206]> select * from Developers;
+-----------+------------------+----------------------------+-----------+--------------+------------+
| member_id | name             | email                      | followers | joining_date | multiplier |
+-----------+------------------+----------------------------+-----------+--------------+------------+
|         1 | Taylor Otwell    | otwell@laravel.com         |    739360 | 2020-06-10   |         10 |
|         2 | Ryan Dahl        | ryan@nodejs.org            |    633632 | 2020-04-22   |         10 |
|         3 | Brendan Eich     | eich@javascript.com        |    939570 | 2020-05-07   |          8 |
|         4 | Evan You         | you@vuejs.org              |    982630 | 2020-06-11   |          7 |
|         5 | Rasmus Lerdorf   | lerdorf@php.net            |    937927 | 2020-06-03   |          8 |
|         6 | Guido van Rossum | guido@python.org           |    968827 | 2020-07-18   |         19 |
|         7 | Adrian Holovaty  | adrian@djangoproject.com   |    570724 | 2020-05-07   |          5 |
|         8 | Simon Willison   | simon@djangoproject.com    |    864615 | 2020-04-30   |          4 |
|         9 | James Gosling    | james@java.com             |    719491 | 2020-05-18   |          5 |
|        10 | Rod Johnson      | rod@spring.io              |    601744 | 2020-05-18   |          7 |
|        11 | Satoshi Nakamoto | nakamoto@blockchain.com    |    630488 | 2020-05-10   |         10 |
+-----------+------------------+----------------------------+-----------+--------------+------------+
11 rows in set (0.000 sec)
``` |
| | |

No 4 Query (as Plain Text)	select member_id, name, email, followers + 10 as followers, joining_date, multiplier from Developers
| No 4 SS<br>(of Query & Output<br>in Shell) | ```
MariaDB [Google_22301206]> select member_id, name, email, followers + 10 as followers, joining_date, multiplier from Developers;
+-----------+------------------+----------------------------+-----------+--------------+------------+
| member_id | name             | email                      | followers | joining_date | multiplier |
+-----------+------------------+----------------------------+-----------+--------------+------------+
|         1 | Taylor Otwell    | otwell@laravel.com         |    739370 | 2020-06-10   |         10 |
|         2 | Ryan Dahl        | ryan@nodejs.org            |    633642 | 2020-04-22   |         10 |
|         3 | Brendan Eich     | eich@javascript.com        |    939580 | 2020-05-07   |          8 |
|         4 | Evan You         | you@vuejs.org              |    982640 | 2020-06-11   |          7 |
|         5 | Rasmus Lerdorf   | lerdorf@php.net            |    937937 | 2020-06-03   |          8 |
|         6 | Guido van Rossum | guido@python.org           |    968837 | 2020-07-18   |         19 |
|         7 | Adrian Holovaty  | adrian@djangoproject.com   |    570734 | 2020-05-07   |          5 |
|         8 | Simon Willison   | simon@djangoproject.com    |    864625 | 2020-04-30   |          4 |
|         9 | James Gosling    | james@java.com             |    719501 | 2020-05-18   |          5 |
|        10 | Rod Johnson      | rod@spring.io              |    601754 | 2020-05-18   |          7 |
|        11 | Satoshi Nakamoto | nakamoto@blockchain.com    |    630498 | 2020-05-10   |         10 |
+-----------+------------------+----------------------------+-----------+--------------+------------+
11 rows in set (0.000 sec)
``` |
| | |
| No 5 Query
(as Plain Text) | select name, ((followers * (100/1000000)) * ((multiplier * 100/20))/100 as Efficiency from Developers; |
| No 5 SS<br>(of Query & Output<br>in Shell) | ```
MariaDB [Google_22301206]> select name, ((followers * (100/1000000)) * ((multiplier * 100/20))/100 as Efficiency from Developers;
+------------------+-----------------+
| name             | Efficiency      |
+------------------+-----------------+
| Taylor Otwell    | 36.968000000000 |
| Ryan Dahl        | 31.681600000000 |
| Brendan Eich     | 37.582800000000 |
| Evan You         | 34.392050000000 |
| Rasmus Lerdorf   | 37.517080000000 |
| Guido van Rossum | 92.038565000000 |
| Adrian Holovaty  | 14.268100000000 |
| Simon Willison   | 17.292300000000 |
| James Gosling    | 17.987275000000 |
| Rod Johnson      | 21.061040000000 |
| Satoshi Nakamoto | 31.524400000000 |
+------------------+-----------------+
11 rows in set (0.001 sec)
``` |

No 6 Query **(as Plain Text)**	select upper(name) as name, joining_date from Developers order by joining_date desc;
| **No 6 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_22301206]> select upper(name) as name, joining_date from Developers order by joining_date desc;
+------------------+--------------+
| name             | 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 (0.000 sec)
``` |
| | |
| **No 7 Query**
(as Plain Text) | select member_id, name, email, followers from Developers where email like '%.com' or email like '%.net'; |
| **No 7 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Google_22301206]> 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     |    739360 |
|         3 | Brendan Eich     | eich@javascript.com    |    939570 |
|         5 | Rasmus Lerdorf   | lerdorf@php.net        |    937927 |
|         7 | Adrian Holovaty  | adrian@djangoproject.com |  570724 |
|         8 | Simon Willison   | simon@djangoproject.com |   864615 |
|         9 | James Gosling    | james@java.com         |    719491 |
|        11 | Satoshi Nakamoto | nakamoto@blockchain.com |   630488 |
+-----------+------------------+------------------------+-----------+
7 rows in set (0.000 sec)
``` |