CSE370 : Database Systems

Assignment 02 | Fall 2024

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No 1 Query (as Plain Text)	MariaDB [Company_22301206]> select first_name, last_name, email, phone_number, hire_date, department_id from Employee where hire_date = (select max(hire_date) from Employee);
| **No 1 SS (of Query & Output in Shell)** | ```
MariaDB [Company_22301206]> select first_name, last_name, email, phone_number, hire_date, department_id from Employee where hire_date = (select max(hire_date) from Employee);
+------------+-----------+---------------------------+--------------+------------+---------------+
| first_name | last_name | email                     | phone_number | hire_date  | department_id |
+------------+-----------+---------------------------+--------------+------------+---------------+
| Charlie    | Chomskey  | Charlie.Chomskey@gmail.com| 01670674     | 2018-09-18 | DPT003        |
| Emy        | Emarson   | Emy.Emarson@gmail.com     | 01672984     | 2018-09-18 | DPT005        |
+------------+-----------+---------------------------+--------------+------------+---------------+
2 rows in set (0.001 sec)
``` |
| | |
| **No 2 Query (as Plain Text)** | MariaDB [Company_22301206]> select first_name, last_name, employee_id, phone_number, min(salary) as salary, department_id from Employee group by department_id ; |
| **No 2 SS (of Query & Output in Shell)** | ```
MariaDB [Company_22301206]> select first_name, last_name, employee_id, phone_number, min(salary) as salary, department_id from Employee group by department_id ;
+------------+-----------+-------------+--------------+---------+---------------+
| first_name | last_name | employee_id | phone_number | salary  | department_id |
+------------+-----------+-------------+--------------+---------+---------------+
| Alexa      | Andres    | EMP001      | 01863456     |   30000 | DPT001        |
| Brayan     | Adams     | EMP002      | 01763025     |   40000 | DPT002        |
| Charlie    | Chomskey  | EMP003      | 01670674     |   50000 | DPT003        |
| Don        | Darwin    | EMP004      | 01689823     |   60000 | DPT004        |
| Emy        | Emarson   | EMP005      | 01672984     |   70000 | DPT005        |
| Franklin   | Farnandez | EMP006      | 01452238     |   80000 | DPT006        |
| Gramy      | Roses     | EMP007      | 01834642     |   90000 | DPT007        |
| Harfy      | Boby      | EMP008      | 01983456     | 1000000 | DPT008        |
| Ion        | Musk      | EMP009      | 01894356     |  110000 | DPT009        |
| John       | Jimmy     | EMP010      | 01347653     |   12000 | DPT010        |
| Kaily      | Peterson  | EMP011      | 01798777     |   13000 | DPT011        |
+------------+-----------+-------------+--------------+---------+---------------+
11 rows in set (0.001 sec)
``` |

No 3 Query (as Plain Text)	MariaDB [Company_22301206]> select first_name , last_name, employee_id, commission_pct,department_id from Employee where department_id = 'DPT007' and commission_pct < all(select commission_pct from Employee where department_id = 'DPT005');
| **No 3 SS (of Query & Output in Shell)** | ```
MariaDB [Company_22301206]> select first_name , last_name, employee_id, commission_pct,department_id from Employee where department_id = 'DPT007' and commission_pct < all
(select commission_pct from Employee where department_id = 'DPT005');
+------------+-----------+-------------+----------------+---------------+
| first_name | last_name | employee_id | commission_pct | department_id |
+------------+-----------+-------------+----------------+---------------+
| Gramy      | Roses     | EMP007      |          2.500 | DPT007        |
+------------+-----------+-------------+----------------+---------------+
1 row in set (0.003 sec)
``` |
| | |
| **No 4 Query (as Plain Text)** | MariaDB [Company_22301206]> select department_id, count(*) from Employee E1 where not exists (select * from Employee E2 where E2.department_id = E1.department_id and E2.salary > 30000) group by department_id; |
| **No 4 SS (of Query & Output in Shell)** | ```
MariaDB [Company_22301206]> select department_id, count(*) from Employee E1 where not exists (select * from Employee E2 where E2.department_id = E1.department_id and E2.salary > 30000) group by department_id;
+---------------+----------+
| department_id | count(*) |
+---------------+----------+
| DPT001        |        1 |
| DPT010        |        1 |
| DPT011        |        1 |
+---------------+----------+
3 rows in set (0.002 sec)
``` |
| | |
| **No 5 Query (as Plain Text)** | MariaDB [Company_22301206]> select department_id, job_id, commission_pct from Employee E1 where commission_pct < any (select commission_pct from Employee E2 where E1.department_id = E2.department_id and E1.job_id != E2.job_id); |
| **No 5 SS (of Query & Output in Shell)** | ```
MariaDB [Company_22301206]> select department_id, job_id, commission_pct from Employee E1 where commission_pct < any (select commission_pct from
 Employee E2 where E1.department_id = E2.department_id and E1.job_id != E2.job_id);
Empty set (0.001 sec)
``` |
| | |

No 6 Query (as Plain Text)	MariaDB [Company_22301206]> select manager_id from Employee E1 where not exists (select * from Employee E2 where E1.manager_id = E2.manager_id and E2.salary < 3500);
| **No 6 SS** (of Query & Output in Shell) | ```
MariaDB [Company_22301206]> select manager_id from Employee E1 where not exists (select * from Employee E2 where E1.manager_id = E2.manager_id
and E2.salary < 3500);
+------------+
| manager_id |
+------------+
| MNG001     |
| MNG002     |
| MNG003     |
| MNG004     |
| MNG005     |
| MNG006     |
| MNG007     |
| MNG008     |
| MNG009     |
| MNG010     |
| MNG011     |
+------------+
11 rows in set (0.001 sec)
``` |
| | |
| No 7 Query (as Plain Text) | MariaDB [Company_22301206]> select first_name, last_name, employee_id, email, salary, department_id, commission_pct from Employee where (manager_id, commission_pct) in (select manager_id, min(commission_pct) from Employee group by manager_id); |
| **No 7 SS** (of Query & Output in Shell) | ```
MariaDB [Company_22301206]> select first_name, last_name, employee_id, email, salary, department_id, commission_pct from Employee where (manager
_id, commission_pct) in (select manager_id, min(commission_pct) from Employee group by manager_id);
+------------+-----------+-------------+-----------------------------+---------+---------------+----------------+
| first_name | last_name | employee_id | email                       | salary  | department_id | commission_pct |
+------------+-----------+-------------+-----------------------------+---------+---------------+----------------+
| Alexa      | Andres    | EMP001      | Alexa.Andres@gmail.com      |   30000 | DPT001        |          0.125 |
| Brayan     | Adams     | EMP002      | Brayan.Adams@gmail.com      |   40000 | DPT002        |          1.250 |
| Charlie    | Chomskey  | EMP003      | Charlie.Chomskey@gmail.com  |   50000 | DPT003        |         15.600 |
| Don        | Darwin    | EMP004      | Don.Darwin@gmail.com        |   60000 | DPT004        |         99.999 |
| Emy        | Emarson   | EMP005      | Emy.Emarson@gmail.com       |   70000 | DPT005        |         10.123 |
| Franklin   | Farnandez | EMP006      | Franklin.Farnandez@gmail.com|   80000 | DPT006        |         15.600 |
| Gramy      | Roses     | EMP007      | Gramy.Roses@gmail.com       |   90000 | DPT007        |          2.500 |
| Harfy      | Boby      | EMP008      | Harfy.Boby@gmail.com        | 1000000 | DPT008        |         50.500 |
| Ion        | Musk      | EMP009      | Ion.Musk@gmail.com          |  110000 | DPT009        |          0.300 |
| John       | Jimmy     | EMP010      | John.Jimmy@gmail.com        |   12000 | DPT010        |          0.275 |
| Kaily      | Peterson  | EMP011      | Kaily.Peterson@gmail.com    |   13000 | DPT011        |         13.780 |
+------------+-----------+-------------+-----------------------------+---------+---------------+----------------+
11 rows in set (0.001 sec)
``` |