CSE370 : Database Systems

Assignment 02 | Fall 2024

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No 1 Query (as Plain Text)	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_22201998]> 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 | +------------+-----------+------------------------+--------------+------------+---------------+ | Amir | Hamza | amir_hamza@hotmail.com | +8801976674676 | 2024-07-07 | DPT006 | +------------+-----------+------------------------+--------------+------------+---------------+ 1 row in set (0.001 sec) MariaDB [Company_22201998]>
No 2 Query (as Plain Text)	SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM Employee GROUP BY department_id HAVING MIN(salary);
No 2 SS (of Query & Output in Shell)	MariaDB [Company_22201998]> SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM Employee GROUP BY department_id HAVING MIN(salary); +------------+-----------+-------------+----------------+--------+---------------+ | first_name | last_name | employee_id | phone_number | salary | department_id | +------------+-----------+-------------+----------------+--------+---------------+ | Hamza | Choudhury | EMP001 | +8801676526372 | 9500 | DPT001 | | Sumanta | Anwar | EMP002 | +8801876595673 | 8500 | DPT002 | | Hasibur | Rahman | EMP003 | +8801965986790 | 12500 | DPT003 | | Tonmoy | Mahmud | EMP005 | +8801984545784 | 25000 | DPT004 | | Zaber | Ahmed | EMP006 | +8801864394346 | 28000 | DPT005 | | Aurpita | saha | EMP010 | +8801667834578 | 40000 | DPT006 | | Tarik | Zaman | EMP013 | +8801523127882 | 24500 | DPT007 | +------------+-----------+-------------+----------------+--------+---------------+ 7 rows in set (0.000 sec) MariaDB [Company_22201998]>
No 3 Query (as Plain Text)	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_22201998]> SELECT first_name, last_name, employee_id, commission_pct, department_id FROM Employee WHERE department_id = "DPT007" AND commis
	sion_pct < ALL(SELECT commission_pct FROM Employee WHERE department_id = "DPT005");
	+------------+-----------+-------------+----------------+---------------+
	| first_name
		last_name	employee_id	commission_pct	department_id |
					+------------+-----------+-------------+----------------+---------------+
					| Abrar
						Hossain	EMP014	0.015	DPT007 |
									+------------+-----------+-------------+----------------+---------------+
									1 row in set (0.007 sec)
									
									MariaDB [Company_22201998]> |
									``

No 4 Query **(as Plain Text)**	SELECT department_id, COUNT(employee_id) AS total_employees FROM Employee GROUP BY department_id HAVING MAX(salary) < 30000;
No 4 SS **(of Query & Output** **in Shell)**	``` MariaDB [Company_22201998]> SELECT department_id, COUNT(employee_id) AS total_employees FROM Employee GROUP BY department_id HAVING MAX(salary) < 30000; +---------------+-----------------+ 	department_id	total_employees	 +---------------+-----------------+ 	DPT003	3
DPT007	2 | +---------------+-----------------+ 2 rows in set (0.001 sec) ```
No 5 Query **(as Plain Text)**	SELECT department_id, job_id, commission_pct FROM Employee L1 WHERE EXISTS(SELECT * FROM Employee L2 WHERE L2.department_id=L1.department_id AND L2.commission_pct > L1.commission_pct);
No 5 SS **(of Query & Output** **in Shell)**	``` MariaDB [Company_22201998]> SELECT department_id, job_id, commission_pct FROM Employee L1 WHERE EXISTS(SELECT * FROM Employee L2 WHERE L2.department_id=L1.d epartment_id AND L2.commission_pct > L1.commission_pct); +---------------+--------+----------------+ 	department_id	job_id	commission_pct	 +---------------+--------+----------------+ 	DPT001	JOB009	0.015
DPT003	JOB003	0.015
DPT003	JOB012	0.020
DPT006	JOB010	0.055
DPT007	JOB014	0.015	 +---------------+--------+----------------+ 5 rows in set (0.002 sec) MariaDB [Company_22201998]>	 ```
No 6 Query	SELECT manager_id FROM Employee GROUP BY manager_id HAVING MIN(salary) >= 3500;

(as Plain Text)	
| **No 6 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Company_22201998]> SELECT manager_id FROM Employee GROUP BY manager_id HAVING MIN(salary) >= 3500;
+------------+
| manager_id |
+------------+
| MNG001     |
| MNG002     |
| MNG003     |
| MNG004     |
| MNG005     |
| MNG006     |
| MNG007     |
+------------+
7 rows in set (0.001 sec)

MariaDB [Company_22201998]>
``` |
| | |
| **No 7 Query**
(as Plain Text) | SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct FROM Employee L1 WHERE commission_pct = (SELECT MIN(L2.commission_pct) FROM Employee L2 WHERE L2.manager_id=L1.manager_id); |
| **No 7 SS**<br>**(of Query & Output**<br>**in Shell)** | ```
MariaDB [Company_22201998]> SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct FROM Employee L1 WHERE commission_pct =
(SELECT MIN(L2.commission_pct) FROM Employee L2 WHERE L2.manager_id=L1.manager_id);
+------------+-----------+-------------+----------------------+--------+---------------+----------------+
| first_name | last_name | employee_id | email                | salary | department_id | commission_pct |
+------------+-----------+-------------+----------------------+--------+---------------+----------------+
| Sumanta    | Anwar     | EMP002      | sumanta001@gmail.com |   8500 | DPT002        |          0.035 |
| Hasibur    | Rahman    | EMP003      | hasib1223@gmail.com  |  12500 | DPT003        |          0.015 |
| Tonmoy     | Mahmud    | EMP005      | tonmoy1@gmail.com    |  25000 | DPT004        |          0.035 |
| Zaber      | Ahmed     | EMP006      | zaber_ahmed@yahoo.com|  28000 | DPT005        |          0.025 |
| Rodela     | Mahmud    | EMP007      | rodela1996@gmail.com |  31500 | DPT004        |          0.035 |
| Rupoma     | Chakma    | EMP008      | rupoma@outlook.com   |  30000 | DPT002        |          0.035 |
| Ariyan     | Khan      | EMP009      | ariyan_khan01@gmail.com| 35000 | DPT001      |          0.015 |
| Aurpita    | saha      | EMP010      | aurpita9@yahoo.com   |  40000 | DPT006        |          0.055 |
| Abrar      | Hossain   | EMP014      | abrar12@gmail.com    |  28500 | DPT007        |          0.015 |
| Rishad     | Hasan     | EMP015      | rishad95@gmail.com   |  34000 | DPT005        |          0.025 |
+------------+-----------+-------------+----------------------+--------+---------------+----------------+
10 rows in set (0.001 sec)

MariaDB [Company_22201998]>
``` |
| | |