

CSE370 : Database Systems

Assignment 02 | Spring 2025

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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)	<pre>MariaDB [Company_20301318]> 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 +-----+-----+-----+-----+-----+ Eve Williams eve.williams@example.com 678-901-2345 2023-10-01 DPT007 +-----+-----+-----+-----+-----+ 1 row in set (0.000 sec)</pre>
No 2 Query (as Plain Text)	SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM Employee e WHERE salary = (SELECT MIN(salary) FROM Employee WHERE department_id = e.department_id);
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [Company_20301318]> SELECT first_name, last_name, employee_id, phone_number, salary, department_id -> FROM Employee e -> WHERE salary = (SELECT MIN(salary) FROM Employee WHERE department_id = e.department_id); +-----+-----+-----+-----+-----+ first_name last_name employee_id phone_number salary department_id +-----+-----+-----+-----+-----+ John Doe EMP001 123-456-7890 5000 DPT001 Jane Smith EMP002 234-567-8901 6000 DPT002 Alice Johnson EMP003 345-678-9012 7000 DPT003 Eve Williams EMP010 678-901-2345 3000 DPT007 +-----+-----+-----+-----+-----+ 4 rows in set (0.000 sec)</pre>

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)	<pre>MariaDB [Company_20301318]> 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 +-----+-----+-----+-----+ Eve Williams EMP010 0.050 DPT007 +-----+-----+-----+-----+ 1 row in set (0.000 sec)</pre>
No 4 Query (as Plain Text)	SELECT department_id, COUNT(*) AS total_employees FROM Employee WHERE department_id NOT IN (SELECT department_id FROM Employee WHERE salary > 30000) GROUP BY department_id;
No 4 SS (of Query & Output in Shell)	<pre>MariaDB [Company_20301318]> SELECT department_id, COUNT(*) AS total_employees -> FROM Employee -> WHERE department_id NOT IN (SELECT department_id FROM Employee WHERE salary > 30000) -> GROUP BY department_id; +-----+-----+ department_id total_employees +-----+-----+ DPT001 1 DPT002 1 DPT003 1 DPT007 1 +-----+-----+ 4 rows in set (0.000 sec)</pre>

No 5 Query (as Plain Text)	SELECT e1.department_id, e1.job_id, e1.commission_pct FROM Employee e1 WHERE e1.commission_pct < (SELECT MAX(e2.commission_pct) FROM Employee e2 WHERE e2.department_id = e1.department_id AND e2.job_id <> e1.job_id);
No 5 SS (of Query & Output in Shell)	<pre>MariaDB [Company_20301318]> SELECT e1.department_id, e1.job_id, e1.commission_pct -> FROM Employee e1 -> WHERE e1.commission_pct < (SELECT MAX(e2.commission_pct) -> FROM Employee e2 -> WHERE e2.department_id = e1.department_id -> AND e2.job_id <> e1.job_id); Empty set (0.001 sec)</pre>
No 6 Query (as Plain Text)	SELECT manager_id FROM Employee GROUP BY manager_id HAVING MIN(salary) >= 3500;
No 6 SS (of Query & Output in Shell)	<pre>MariaDB [Company_20301318]> SELECT manager_id -> FROM Employee -> GROUP BY manager_id -> HAVING MIN(salary) >= 3500; +-----+ manager_id +-----+ MNG001 MNG002 MNG003 +-----+ 3 rows in set (0.000 sec)</pre>

No 7 Query (as Plain Text)	SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct FROM Employee e WHERE commission_pct = (SELECT MIN(commission_pct) FROM Employee WHERE manager_id = e.manager_id) ORDER BY manager_id;																																			
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Company_20301318]> SELECT first_name, last_name, employee_id, email, salary, department_id, commission_pct -> FROM Employee e -> WHERE commission_pct = (SELECT MIN(commission_pct) -> FROM Employee -> WHERE manager_id = e.manager_id) -> ORDER BY manager_id;</pre> <table border="1"> <thead> <tr> <th>first_name</th> <th>last_name</th> <th>employee_id</th> <th>email</th> <th>salary</th> <th>department_id</th> <th>commission_pct</th> </tr> </thead> <tbody> <tr> <td>John</td> <td>Doe</td> <td>EMP001</td> <td>john.doe@example.com</td> <td>5000</td> <td>DPT001</td> <td>0.100</td> </tr> <tr> <td>Jane</td> <td>Smith</td> <td>EMP002</td> <td>jane.smith@example.com</td> <td>6000</td> <td>DPT002</td> <td>0.150</td> </tr> <tr> <td>Alice</td> <td>Johnson</td> <td>EMP003</td> <td>alice.johnson@example.com</td> <td>7000</td> <td>DPT003</td> <td>0.200</td> </tr> <tr> <td>Eve</td> <td>Williams</td> <td>EMP010</td> <td>eve.williams@example.com</td> <td>3000</td> <td>DPT007</td> <td>0.050</td> </tr> </tbody> </table> <p>4 rows in set (0.001 sec)</p>	first_name	last_name	employee_id	email	salary	department_id	commission_pct	John	Doe	EMP001	john.doe@example.com	5000	DPT001	0.100	Jane	Smith	EMP002	jane.smith@example.com	6000	DPT002	0.150	Alice	Johnson	EMP003	alice.johnson@example.com	7000	DPT003	0.200	Eve	Williams	EMP010	eve.williams@example.com	3000	DPT007	0.050
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