

CSE370 : Database Systems

Assignment 01/02/03 | Spring 2025

ID : 22301746 | Name : MD Zihadul Islam

No 1 Query (as Plain Text)	<pre>select * from employee; SELECT first_name, last_name, email, phone_number, hire_date, department_id FROM Employee;</pre>
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Company_22301746]> SELECT first_name, last_name, email, phone_number, hire_date, department_id -> FROM Employee; +-----+-----+-----+-----+-----+-----+ first_name last_name email phone_number hire_date department_id +-----+-----+-----+-----+-----+-----+ John Doe john.doe@example.com 123-456-7890 2025-01-15 DPT001 Jane Smith jane.smith@example.com 123-456-7891 2025-02-10 DPT002 Alice Johnson alice.johnson@example.com 123-456-7892 2025-03-05 DPT003 Bob Brown bob.brown@example.com 123-456-7893 2025-04-20 DPT004 Charlie Davis charlie.davis@example.com 123-456-7894 2025-05-25 DPT005 David Wilson david.wilson@example.com 123-456-7895 2025-06-15 DPT006 Emma White emma.white@example.com 123-456-7896 2025-07-10 DPT007 +-----+-----+-----+-----+-----+-----+</pre>
No 2 Query (as Plain Text)	<pre>SELECT first_name, last_name, employee_id, phone_number, salary, department_id FROM Employee</pre>

No 2 SS
(of Query & Output
in Shell)

```
MariaDB [Company_22301746]> SELECT first_name, last_name, employee_id, phone_number, salary, department_id
-> FROM Employee;
+-----+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | phone_number | salary | department_id |
+-----+-----+-----+-----+-----+-----+
| John      | Doe      | EMP001      | 123-456-7890 | 5000   | DPT001        |
| Jane      | Smith    | EMP002      | 123-456-7891 | 6000   | DPT002        |
| Alice     | Johnson  | EMP003      | 123-456-7892 | 7000   | DPT003        |
| Bob       | Brown    | EMP004      | 123-456-7893 | 8000   | DPT004        |
| Charlie   | Davis    | EMP005      | 123-456-7894 | 25000  | DPT005        |
| David     | Wilson   | EMP006      | 123-456-7895 | 10000  | DPT006        |
| Emma      | White    | EMP007      | 123-456-7896 | 12000  | DPT007        |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.011 sec)
```

No 3 Query
(as Plain Text)

```
SELECT first_name, last_name, employee_id, commission_pct, department_id
FROM Employee;
```

No 3 SS
(of Query & Output
in Shell)

```
MariaDB [Company_22301746]> SELECT first_name, last_name, employee_id, commission_pct, department_id
-> FROM Employee;
+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | commission_pct | department_id |
+-----+-----+-----+-----+-----+
| John      | Doe      | EMP001      | 0.050          | DPT001        |
| Jane      | Smith    | EMP002      | 0.100          | DPT002        |
| Alice     | Johnson  | EMP003      | 0.070          | DPT003        |
| Bob       | Brown    | EMP004      | 0.080          | DPT004        |
| Charlie   | Davis    | EMP005      | 0.020          | DPT005        |
| David     | Wilson   | EMP006      | 0.040          | DPT006        |
| Emma      | White    | EMP007      | 0.060          | DPT007        |
+-----+-----+-----+-----+-----+
7 rows in set (0.018 sec)
```

No 4 Query (as Plain Text)	SELECT department_id, COUNT(*) AS employee_count FROM Employee GROUP BY department_id HAVING MAX(salary) <= 30000;
No 4 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301746]> SELECT department_id, COUNT(*) AS employee_count -> FROM Employee -> GROUP BY department_id -> HAVING MAX(salary) <= 30000; +-----+-----+ department_id employee_count +-----+-----+ DPT001 1 DPT002 1 DPT003 1 DPT004 1 DPT005 1 DPT006 1 DPT007 1 +-----+-----+ </pre>
No 5 Query (as Plain Text)	SELECT department_id, job_id, commission_pct FROM Employee WHERE commission_pct<(SELECT MAX(commission_pct) FROM Employee AS subquery WHERE subquery.department_id = Employee.department_id);
No 5 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301746]> SELECT department_id, job_id, commission_pct FROM Employee WHERE commission_pct<(SELECT MAX(commission_pct) FROM Employee AS sub query WHERE subquery.department_id = Employee.department_id); +-----+-----+-----+ department_id job_id commission_pct +-----+-----+-----+ DPT001 JOB001 0.050 DPT001 JOB009 0.050 +-----+-----+-----+ 2 rows in set (0.017 sec) </pre>

No 6 Query (as Plain Text)	select manager_id from employee group by manager_id having max(salary) >= 3500;
No 6 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301746]> select manager_id from employee group by manager_id having max(salary) >= 3500; +-----+ manager_id +-----+ MNG001 MNG002 MNG003 MNG004 +-----+ </pre>
No 7 Query (as Plain Text)	select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employee where commission_pct = (select min(commission_pct) from employee as e where e.manager_id = employee.manager_id);
No 7 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301746]> select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employee where commission_pct = (select min(commission_pct) from employee as e where e.manager_id = employee.manager_id); +-----+-----+-----+-----+-----+-----+-----+ first_name last_name employee_id email salary department_id commission_pct +-----+-----+-----+-----+-----+-----+-----+ John Doe EMP001 john.doe@example.com 5000 DPT001 0.050 Bob Brown EMP004 bob.brown@example.com 8000 DPT004 0.080 Charlie Davis EMP005 charlie.davis@example.com 25000 DPT005 0.020 Emma White EMP007 emma.white@example.com 12000 DPT007 0.060 +-----+-----+-----+-----+-----+-----+-----+ 4 rows in set (0.012 sec) </pre>