

CSE370 : Database Systems

Assignment 01 | Fall 2024

ID : <8 Digit Student ID> | Name : Full Official Name

No 1 Query (as Plain Text)	select * from Employee;
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Company_22301268]> select * from Employee; +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ employee_id first_name last_name email phone_number hire_date job_id salary commission_pct manager_id department_id +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ EMP001 Maisha Mehzabin maisha.mehzabin@example.com 01312345122 2024-07-10 JOB004 500 0.051 MNG002 DPT005 EMP002 Shoili Sriti shoili.sriti@example.com 01552345195 2024-09-23 JOB001 800 0.075 MNG005 DPT001 EMP003 Pronoy Haq pronoy.haq@example.com 01722945121 2024-05-01 JOB002 3000 0.065 MNG002 DPT002 EMP004 Emily Das emily.das@example.com 01899294538 2024-07-29 JOB003 32 0.010 MNG003 DPT003 EMP005 Joseph Caprio joseph.caprio@example.com 01798745155 2024-07-05 JOB004 15000 0.055 MNG003 DPT003 EMP006 Ayesha Tabassum ayesha.tabassum@example.com 01942745124 2024-10-30 JOB002 40000 0.025 MNG004 DPT004 EMP007 Ahmed Ali ahmed.ali@example.com 01800235696 2024-02-01 JOB005 18000 0.060 MNG003 DPT008 EMP008 Sara Shekh sara.shekh@example.com 01322945927 2024-12-18 JOB001 15000 0.037 MNG002 DPT003 EMP009 Niloy Nayeem niloy.nayeem@example.com 01857145121 2022-06-18 JOB004 17000 0.040 MNG003 DPT007 EMP010 Nill Niloy nill.noah@example.com 01622945199 2024-04-09 JOB001 55000 0.025 MNG001 DPT007 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 10 rows in set (0.004 sec)</pre>
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_22301268]> 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 +-----+-----+-----+-----+-----+-----+ Sara Shekh sara.shekh@example.com 01322945927 2024-12-18 DPT003 +-----+-----+-----+-----+-----+-----+ 1 row in set (0.035 sec)</pre>
No 2 Query (as Plain Text)	select first_name, last_name, employee_id, phone_number, salary, department_id from Employee emp1 where salary = (select min(salary) from Employee emp2 where emp1.department_id = emp2.department_id);

No 2 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301268]> select first_name, last_name, employee_id, phone_number, salary, department_id from Employee emp1 where salary = (select min(salary) from Employee emp2 where emp1.department_id = emp2.department_id); +-----+-----+-----+-----+-----+-----+ first_name last_name employee_id phone_number salary department_id +-----+-----+-----+-----+-----+-----+ Maisha Mehzabin EMP001 01312345122 500 DPT005 Shoili Sriti EMP002 01552345195 800 DPT001 Pronoy Haq EMP003 01722945121 3000 DPT002 Emily Das EMP004 01899294538 32 DPT003 Ayesha Tabassum EMP006 01942745124 40000 DPT004 Ahmed Ali EMP007 01800235696 18000 DPT008 Niloy Nayeem EMP009 01857145121 17000 DPT007 +-----+-----+-----+-----+-----+-----+ 7 rows in set (0.005 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_22301268]> 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 +-----+-----+-----+-----+-----+-----+ Niloy Nayeem EMP009 0.040 DPT007 Nill Noah EMP010 0.025 DPT007 +-----+-----+-----+-----+-----+-----+ 2 rows in set (0.047 sec) </pre>
No 4 Query (as Plain Text)	select department_id, count(*) as total_no_of_emp from Employee group by department_id having max(salary) <= 30000;
No 4 SS (of Query & Output in Shell)	<pre> MariaDB [Company_22301268]> select department_id, count(*) as total_no_of_emp from Employee group by department_id having max(salary) <= 30000; +-----+-----+ department_id total_no_of_emp +-----+-----+ DPT001 1 DPT002 1 DPT003 3 DPT005 1 DPT008 1 +-----+-----+ 5 rows in set (0.017 sec) </pre>
No 5 Query	select DISTINCT emp1.department_id, emp1.job_id, emp1.commission_pct from Employee emp1 where exists (select * from Employee

(as Plain Text)	emp2 where emp2.department_id = emp1.department_id and emp1.job_id != emp2.job_id and emp1.commission_pct < emp2.commission_pct);																																										
No 5 SS (of Query & Output in Shell)	<pre>MariaDB [Company_22301268]> select DISTINCT emp1.department_id, emp1.job_id, emp1.commission_pct from Employee emp1 where exists (select * from Employee emp2 where emp2.department_id = emp1.department_id and emp1.job_id != emp2.job_id and emp1.commission_pct < emp2.commission_pct);</pre> <table><thead><tr><th>department_id</th><th>job_id</th><th>commission_pct</th></tr></thead><tbody><tr><td>DPT003</td><td>JOB003</td><td>0.010</td></tr><tr><td>DPT003</td><td>JOB001</td><td>0.037</td></tr><tr><td>DPT007</td><td>JOB001</td><td>0.025</td></tr></tbody></table>	department_id	job_id	commission_pct	DPT003	JOB003	0.010	DPT003	JOB001	0.037	DPT007	JOB001	0.025																														
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No 6 Query (as Plain Text)	select distinct manager_id from Employee emp1 where exists (select * from Employee emp2 where emp2.manager_id = emp1.manager_id and emp2.salary>=3500);																																										
No 6 SS (of Query & Output in Shell)	<pre>MariaDB [Company_22301268]> select distinct manager_id from Employee emp1 where exists (select * from Employee emp2 where emp2.manager_id = emp1.manager_id and emp2.salary>=3500);</pre> <table><thead><tr><th>manager_id</th></tr></thead><tbody><tr><td>MNG002</td></tr><tr><td>MNG003</td></tr><tr><td>MNG004</td></tr><tr><td>MNG001</td></tr></tbody></table> <p>4 rows in set (0.006 sec)</p>	manager_id	MNG002	MNG003	MNG004	MNG001																																					
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MNG002																																											
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No 7 Query (as Plain Text)	select emp1.first_name, emp1.last_name, emp1.employee_id, emp1.email, emp1.salary, emp1.department_id, emp1.commission_pct from Employee emp1 where not exists (select*from Employee emp2 where emp2.manager_id=emp1.manager_id and emp2.commission_pct<emp1.commission_pct);																																										
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Company_22301268]> select emp1.first_name, emp1.last_name, emp1.employee_id, emp1.email, emp1.salary, emp1.department_id, emp1.commission_pct from Employee emp1 where not exists(select*from Employee emp2 where emp2.manager_id=emp1.manager_id and emp2.commission_pct<emp1.commission_pct) -> ;</pre> <table><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>Shoili</td><td>Sriti</td><td>EMP002</td><td>shoili.sriti@example.com</td><td>800</td><td>DPT001</td><td>0.075</td></tr><tr><td>Emily</td><td>Das</td><td>EMP004</td><td>emily.das@example.com</td><td>32</td><td>DPT003</td><td>0.010</td></tr><tr><td>Ayesha</td><td>Tabassum</td><td>EMP006</td><td>ayasha.tabassum@example.com</td><td>40000</td><td>DPT004</td><td>0.025</td></tr><tr><td>Sara</td><td>Shekh</td><td>EMP008</td><td>sara.shekh@example.com</td><td>15000</td><td>DPT003</td><td>0.037</td></tr><tr><td>Will</td><td>Niloy</td><td>EMP010</td><td>will.noah@example.com</td><td>55000</td><td>DPT007</td><td>0.025</td></tr></tbody></table> <p>5 rows in set (0.006 sec)</p>	first_name	last_name	employee_id	email	salary	department_id	commission_pct	Shoili	Sriti	EMP002	shoili.sriti@example.com	800	DPT001	0.075	Emily	Das	EMP004	emily.das@example.com	32	DPT003	0.010	Ayesha	Tabassum	EMP006	ayasha.tabassum@example.com	40000	DPT004	0.025	Sara	Shekh	EMP008	sara.shekh@example.com	15000	DPT003	0.037	Will	Niloy	EMP010	will.noah@example.com	55000	DPT007	0.025
first_name	last_name	employee_id	email	salary	department_id	commission_pct																																					
Shoili	Sriti	EMP002	shoili.sriti@example.com	800	DPT001	0.075																																					
Emily	Das	EMP004	emily.das@example.com	32	DPT003	0.010																																					
Ayesha	Tabassum	EMP006	ayasha.tabassum@example.com	40000	DPT004	0.025																																					
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