

CSE370 : Database Systems

Assignment 02 | Fall 2024

ID : 22201949 | Name : Azmari Sultana

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_22201949]> select first_name, last_name, email, phone_number, hire_date, department_id from employee where hire_date=(select max(hire_date) from employee);</pre> <table><tr><th>first_name</th><th>last_name</th><th>email</th><th>phone_number</th><th>hire_date</th><th>department_id</th></tr><tr><td>Pia</td><td>Sultana</td><td>pia@javascript.com</td><td>782378529826</td><td>2023-08-08</td><td>DPT005</td></tr></table> <pre>1 row in set (0.001 sec)</pre>	first_name	last_name	email	phone_number	hire_date	department_id	Pia	Sultana	pia@javascript.com	782378529826	2023-08-08	DPT005																																																						
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Pia	Sultana	pia@javascript.com	782378529826	2023-08-08	DPT005																																																														
No 2 Query (as Plain Text)	select first_name,last_name,employee_id,phone_number,salary,department_id from employee e1 where salary=(select min(salary) from employee e2 where e1.department_id=e2.department_id);																																																																		
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [company_22201949]> select first_name,last_name,employee_id,phone_number,salary,department_id from employee e1 where salary=(select min(salary) from employee e2 where e1.department_id=e2.department_id);</pre> <table><tr><th>first_name</th><th>last_name</th><th>employee_id</th><th>phone_number</th><th>salary</th><th>department_id</th></tr><tr><td>Mahmudul</td><td>Hasan</td><td>EMP002</td><td>86294036179</td><td>20000</td><td>DPT002</td></tr><tr><td>Rauf</td><td>Biswas</td><td>EMP004</td><td>76564569763</td><td>3000</td><td>DPT004</td></tr><tr><td>Pia</td><td>Sultana</td><td>EMP005</td><td>782378529826</td><td>2000</td><td>DPT005</td></tr><tr><td>Muntaha</td><td>Sidratul</td><td>EMP006</td><td>63257227597</td><td>40000</td><td>DPT006</td></tr><tr><td>Maisha</td><td>Suha</td><td>EMP008</td><td>64178149753</td><td>6000</td><td>DPT008</td></tr><tr><td>Nabila</td><td>Anjum</td><td>EMP009</td><td>136748890</td><td>2000</td><td>DPT009</td></tr><tr><td>Shoshi</td><td>Sultana</td><td>EMP010</td><td>6418823469</td><td>7000</td><td>DPT010</td></tr><tr><td>Tanisha</td><td>Akter</td><td>EMP011</td><td>62468782640</td><td>4000</td><td>DPT001</td></tr><tr><td>Noman</td><td>Hasan</td><td>EMP013</td><td>6253983097</td><td>6000</td><td>DPT003</td></tr><tr><td>Shilpy</td><td>Begun</td><td>EMP014</td><td>6735429759</td><td>20000</td><td>DPT007</td></tr></table> <pre>10 rows in set (0.001 sec)</pre>	first_name	last_name	employee_id	phone_number	salary	department_id	Mahmudul	Hasan	EMP002	86294036179	20000	DPT002	Rauf	Biswas	EMP004	76564569763	3000	DPT004	Pia	Sultana	EMP005	782378529826	2000	DPT005	Muntaha	Sidratul	EMP006	63257227597	40000	DPT006	Maisha	Suha	EMP008	64178149753	6000	DPT008	Nabila	Anjum	EMP009	136748890	2000	DPT009	Shoshi	Sultana	EMP010	6418823469	7000	DPT010	Tanisha	Akter	EMP011	62468782640	4000	DPT001	Noman	Hasan	EMP013	6253983097	6000	DPT003	Shilpy	Begun	EMP014	6735429759	20000	DPT007
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No 3 Query (as Plain Text)	select first_name, last_name, employee_id, commision_pct,department_id from employee where department_id='dpt007' and commision_pct<all(select min(commision_pct) from employee where department_id='dpt005');																																																																		
No 3 SS (of Query & Output in Shell)	<pre>MariaDB [company_22201949]> select first_name, last_name, employee_id, commision_pct,department_id from employee where department_id='dpt007' and commision_pct<all(select min(commision_pct) from employee where department_id='dpt005');</pre> <pre>Empty set (0.000 sec)</pre>																																																																		
No 4 Query (as Plain Text)	select department_id, count(*) from employee group by department_id having max(salary) <=30000;																																																																		

<div>No 4 SS (of Query & Output in Shell)</div>	<pre>MariaDB [company_22201949]> select department_id, count(*) from employee group by department_id having max(salary) <=30000; +-----+-----+ department_id count(*) +-----+-----+ DPT001 2 DPT002 1 DPT004 1 DPT005 2 DPT008 1 DPT009 2 DPT010 1 +-----+-----+ 7 rows in set (0.001 sec)</pre>
<div>No 5 Query (as Plain Text)</div>	<pre>select department_id, job_id, commision_pct from employee e1 where commision_pct < any (select commision_pct from employee e2 where e1.department_id=e2.department_id and e1.job_id != e2.job_id);</pre>
<div>No 5 SS (of Query & Output in Shell)</div>	<pre>MariaDB [company_22201949]> select department_id, job_id, commision_pct from employee e1 where commision_pct < any (select commision_pct from employee e2 where e1.department_id=e2.department_id and e1.job_id != e2.job_id); +-----+-----+-----+ department_id job_id commision_pct +-----+-----+-----+ DPT003 JOB003 0.002 DPT005 JOB005 0.050 DPT001 JOB011 1.023 DPT009 JOB012 0.263 DPT007 JOB014 0.456 DPT007 JOB015 0.050 +-----+-----+-----+ 6 rows in set (0.001 sec)</pre>
<div>No 6 Query (as Plain Text)</div>	<pre>select manager_id from employee group by manager_id having min(salary)>=3500;</pre>
<div>No 6 SS (of Query & Output in Shell)</div>	<pre>MariaDB [company_22201949]> select manager_id from employee group by manager_id having min(salary)>=3500; +-----+ manager_id +-----+ MNG001 MNG002 MNG003 MNG006 MNG007 MNG008 MNG010 +-----+ 7 rows in set (0.000 sec)</pre>
<div>No 7 Query (as Plain Text)</div>	<pre>select first_name, last_name, employee_id, email, salary, department_id, commision_pct from employee e1 where commision_pct=(select min(commision_pct) from employee e2 where e1.manager_id=e2.manager_id) group by manager_id;</pre>
<div>No 7 SS (of Query & Output in Shell)</div>	<pre>MariaDB [company_22201949]> select first_name, last_name, employee_id, email, salary, department_id, commision_pct from employee e1 where commision_pct=(select min(commision_pct) from employee e2 where e1.manager_id=e2.manager_id) group by manager_id; +-----+-----+-----+-----+-----+-----+-----+ first_name last_name employee_id email salary department_id commision_pct +-----+-----+-----+-----+-----+-----+-----+ Tanisha Akter EMP011 tanisha@java.com 4000 DPT001 1.023 Mahmudul Hasan EMP002 mahmudul@nodejs.org 20000 DPT002 1.000 Alif Hossain EMP003 alif@jquery.com 50000 DPT003 0.002 Rauf Biswas EMP004 rauf@linux.com 3000 DPT004 0.001 Pia Sultana EMP005 pia@javascript.com 2000 DPT005 0.050 Muntaha Sidratul EMP006 muntaha@php.net 40000 DPT006 7.264 Ruby Ara EMP015 ruby@python.org 50000 DPT007 0.050 Maisha Suha EMP008 maisha@python.org 6000 DPT008 2.067 Trishan Hossain EMP012 trishan@java.com 5000 DPT009 0.263 Shoshi Sultana EMP010 shoshi@jangooproject.com 7000 DPT010 1.678 +-----+-----+-----+-----+-----+-----+-----+ 10 rows in set (0.001 sec)</pre>

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