CSE370: Database Systems

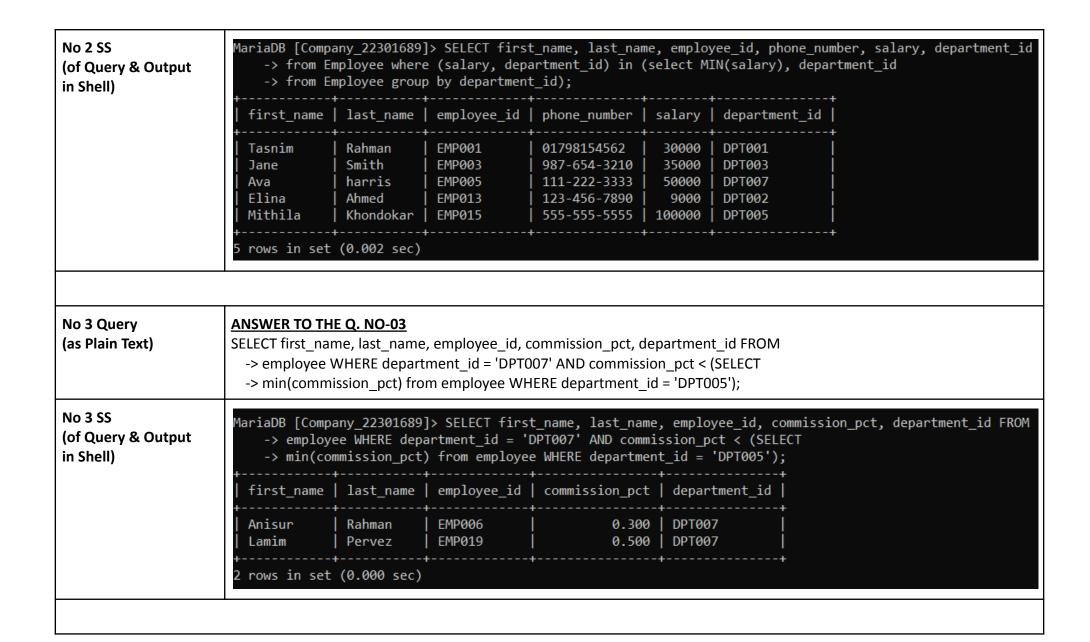
Assignment 02 | Fall 2024

ID: 22301689 | Name: TASNIM RAHMAN MOUMITA

Table Employee:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Tasnim	Rahman	tasnim.rahman@google.com	01798154562	2020-07-18	JOB001	30000	0.500	MNG01	DPT001
EMP002	Amrin	Rasheed	amrin.rasheed @yahoo.com	123-456-7890	2021-03-15	J0B002	20000	0.600	MNG01	DPT002
EMP003	Jane	Smith	jane.smith@google.com	987-654-3210	2019-11-20	J0B003	35000	0.400	MNG01	DPT003
EMP004	Maliha	Jannat	maliha.jannat@google.com	555-555-5555	2020-05-10	J0B004	45000	0.700	MNG02	DPT001
EMP005	Ava	harris	ava.harris@gmail.com	111-222-3333	2022-02-28	JOB001	50000	0.870	MNG02	DPT007
EMP006	Anisur	Rahman	anisur.rahman@gmail.com	999-888-7777	2023-01-05	JOB001	55000	0.300	MNG02	DPT007
EMP007	Jamila	Boeza	jamila.boeza@yahoo.com	777-777-7777	2021-09-12	J0B002	60000	0.900	MNG02	DPT003
EMP008	Dalia	Akter	dalia.akter@yahoo.com	333-444-5555	2020-08-25	J0B002	65000	0.200	MNG03	DPT001
EMP009	Sara	Ibrahim	sara.ibrahim@hotmail.com	666-999-8888	2019-12-30	J0B003	10000	0.500	MNG04	DPT002
EMP010	Christopher	Hill	christopher.hill@google.com	222-333-4444	2022-04-17	J0B03	15000	0.600	MNG03	DPT002
EMP011	Ananda	Sarkar	ananda.sarkar@yahoo.com	444-555-6666	2023-03-08	J0B03	80000	0.700	MNG03	DPT003
EMP012	Juthi	Gomes	juthi.gomes@google.com	888-777-6666	2021-11-25	J0B04	85000	0.800	MNG03	DPT003
EMP013	Elina	Ahmed	elina.ahmed@google.com	123-456-7890	2020-06-30	J0B04	9000	0.900	MNG04	DPT002
EMP014	Krishna	Banerjee	krishna.banerjee@google.com	987-654-3210	2019-10-15	J0B04	95000	0.400	MNG04	DPT003
EMP015	Mithila	Khondokar	mithila.khondokar@google.com	555-555-5555	2020-04-05	J0B04	100000	0.600	MNG05	DPT005
EMP016	Ryan	Ward	ryan.ward@google.com	111-222-3333	2022-01-23	J0B01	105000	0.200	MNG05	DPT001
EMP017	Rachel	Rivera	rachel.rivera@google.com	999-888-7777	2023-02-10	JOB01	110000	0.600	MNG06	DPT005
EMP018	Jasia	Shikder	jasia.shikder@google.com	777-777-7777	2021-08-18	ЈОВ02	115000	0.800	MNG07	DPT005
EMP019	Lamim	Pervez	lamim.pervez@yahoo.com	333-444-5555	2020-09-29	ЈОВ02	120000	0.500	MNG09	DPT007

No 1 Query (as Plain Text)	ANSWER TO THE Q. NO-01 select first_name, last_name, email, phone_number, hire_date, department_id from Employee where hire_date=(select max(hire_date) from Employee);							
(as Fiaili Text)								
No 1 SS (of Query & Output	MariaDB [Company_22301689]> select first_name, last_name, email, phone_number, hire_date, department_id from Employee where hire_date=(select max(hire_date) from Employee);							
in Shell)	first_name last_name email phone_number hire_date department_id							
	Ananda Sarkar ananda.sarkar@yahoo.com 444-555-6666 2023-03-08 DPT003							
	1 row in set (0.001 sec)							
No 2 Query (as Plain Text)	ANSWER TO THE Q. NO-02 SELECT first_name, last_name, employee_id, -> phone_number, salary, department_id from Employee where -> (salary, department_id) in (select MIN(salary), -> department id from Employee group by department id);							



No 4 Query (as Plain Text)	ANSWER TO THE Q. NO-04					
	SELECT department_id, COUNT(*) 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_22301689]> SELECT department_id, COUNT(*) FROM Employee WHERE department_id NOT -> IN (SELECT department_id FROM Employee WHERE salary > 30000) GROUP BY -> department_id; +</pre>					
	DPT002					
	1 row in set (0.001 sec)					
No 5 Query	SELECT department_id, job_id, commission_pct FROM Employee employee WHERE					
(as Plain Text)	 -> commission_pct < ANY (SELECT commission_pct FROM Employee employees -> WHERE employee.department_id = employees.department_id AND -> employee.job_id != employees.job_id); 					

No 5 SS (of Query & Output in Shell)

MariaDB [Company 22301689]> SELECT department id, job id, commission pct FROM Employee employee WHERE -> commission_pct < ANY (SELECT commission_pct FROM Employee employees -> WHERE employee.department_id = employees.department_id AND -> employee.job_id != employees.job_id); department_id | job_id | commission_pct DPT001 J0B001 0.500 DPT002 J0B002 0.600 DPT003 J0B003 0.400 DPT007 J0B001 0.300 DPT001 J0B002 0.200 DPT002 J0B003 0.500 0.600 DPT002 J0B03 DPT003 J0B03 0.700 DPT003 J0B04 0.800 DPT003 J0B04 0.400 DPT005 J0B04 0.600 DPT001 J0B01 0.200 DPT005 J0B01 0.600 DPT007 J0B02 0.500 14 rows in set (0.002 sec)

SELECT DISTINCT manager_id FROM Employee WHERE manager id NOT IN No 6 Query (as Plain Text) -> (SELECT DISTINCT manager id FROM Employee WHERE salary < 3500); No 6 SS MariaDB [Company_22301689]> SELECT DISTINCT manager_id FROM Employee WHERE manager_id NOT IN (of Query & Output -> (SELECT DISTINCT manager_id FROM Employee WHERE salary < 3500); in Shell) manager_id MNG01 MNG02 MNG03 MNG04 MNG05 MNG06 MNG07 MNG09 8 rows in set (0.001 sec) No 7 Query SELECT first name, last name, employee id, email, salary, department id, (as Plain Text) -> commission pct FROM Employee employee WHERE (employee.manager id, -> employee.commission pct) IN (SELECT manager id, MIN(commission pct) FROM -> Employee employees GROUP BY employees.manager id);

No 7 SS (of Query & Output in Shell)

MariaDB [Company_22301689]> SELECT first_name, last_name, employee_id, email, salary, department_id,
-> commission_pct FROM Employee employee WHERE (employee.manager_id,

-> employee.commission_pct) IN (SELECT manager_id, MIN(commission_pct) FROM

-> Employee employees GROUP BY employees.manager_id);

first_name last_name employee_id email	+	+	+	+	+	+	++
Anisur	first_name	last_name	employee_id	email	salary	department_id	commission_pct
	Anisur Dalia Krishna Ryan Rachel Jasia	Rahman Akter Banerjee Ward Rivera Shikder	EMP006 EMP008 EMP014 EMP016 EMP017 EMP018	anisur.rahman@gmail.com dalia.akter@yahoo.com krishna.banerjee@google.com ryan.ward@google.com rachel.rivera@google.com jasia.shikder@google.com	55000 65000 95000 105000 110000	DPT007 DPT001 DPT003 DPT001 DPT005 DPT005	0.300 0.200 0.400 0.200 0.600 0.800

8 rows in set (0.002 sec)