BRAC UNIVERSITY Assignment-02

Submitted by:

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Section: 05

Course code: CSE370

Submitted to:

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Submitted on:

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Submit on: 16.10.2023

Assignment

At first we have to create table and insert the values:

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			i employees:							
employee_id	first mass	Last name	emeil	phone_number	hire_date	100 Itt	salary	commission_gct	manager_tit	department_id
employee_id	first_mass Ramina	last_name Sharar	ramisa.sharan@gmail.com	01747275978	2028-81-16	308861	35800	0.200	rwseet	021001
employee_id	first_mass Hamina Farhana	Lest_name Sharar Yesmin	ramisa.sharar@gmail.com farhana.yasmin@gmail.com	01747275979 01700364448	2028-81-16 2021-01-31	100901	35880 40880	0.200 0.130	PNG001 PNG002	DPT881 DPT885
employee_id EMP001 EMP002	first_mass Ramina	last_name Sharar	ramisa.sharan@gmail.com	01747275978	2028-81-16	100901	35800	0.200	rwseet	021001
employee_3d EMP003 EMP003 EMP003	first_name Ramina Farhana Tabsin	lest_name Sharar Yasmin Rahman	ramisa.sharar@gmail.com farhana.yasmin@gmail.com tahsin.rahman@gmail.com	81747275978 91796364448 91799666668	2028-81-16 2021-01-31 1021-02-12	308881 308883 308883	35880 40890 25880	0.200 9.130 0.200	PRIGORAL PRIGORAL PRIGORAL	DPT001 DPT005 DPT001
emplinyee_3d EMP001 EMP002 EMP003 EMP004 EMP005	first_name Bamina Farhana Tahsin Mujibur Musyba Tahmina	Sharar Yasmin Rahman Batman Keta Chowdhury	ramisa.sharar@ymail.com farhara.yasmin@pail.com tahsin.rahman@gmail.com mujib.rahman@gmail.com nusybe.neha@gmail.com tahmina.chowdhury@gmail.com	81747275978 91790394448 91790399999 91716274926 91716274926 917913111128	2028-81-16 2921-91-31 2921-92-12 2022-93-19 2921-91-31 2022-98-94	308861 308863 308863 308861 308863	35880 40880 25880 35880 38888 55880	0,200 0,130 0,200 0,000 0,120 0,230	PRIGRET PRIGRES PRIGRES PRIGRES PRIGRES PRIGRES PRIGRES	CPT001 OPT005 OPT005 DPT001 CPT007 OPT002 CPT005
emplinyee_id EMP002 EMP003 EMP004 EMP005 EMP005 EMP006 EMP006	first_name Ramina Farhana Tahtin Mujihur Musyba Tahmina Walid	Sharar Yasath Rahan Ratman Nota Choedhury Jahin	ramina.uharar@ysail.com farhama.yasmin@pail.com tahsin.rahman@ysail.com mujib.rahman@ysail.com nusyba.neha@smil.com tahsina.chowdhury@gsail.com walid.jahi@yshow.com	81747275978 91790364443 91790909098 91716274626 91796364448 91731111128 91733333338	2028-81-16 2021-91-31 1921-92-12 2022-93-18 1921-91-31 2022-96-94 2028-12-25	308961 308963 308963 308961 308963 308963	35800 40000 25800 35000 30000 55000 25000	0.200 0.150 0.200 0.000 0.120 0.250 0.050	PRICERT	0PT005 0PT005 0PT005 0PT007 0PT002 0PT005 0PT005
emplityee_id EMP081 EMP083 EMP085 EMP085 EMP085 EMP086 EMP0887 EMP088	first_mame Hamina Farhana Tahsin Mujihur Musyba Tahsina Walid Hefayet	Sharar Yasatn Rahaan Ratman Keta Choudhury Jahin Fariq	ramius, sharariyyasil, com farhara yasatnigamil com tahtin, raminanigamil com mujib, raminanigamil com nuybb nchajamil com nuybb nchajamil com tahmina. Choudhuryigamil com walld jahiniyahon com refayet tarigiyahoo com	81747275078 91700364448 91700369068 91716274626 91796354448 91731111118 81733323338 9174444448	2028-81-16 2021-01-31 2021-02-12 2022-03-18 2021-01-31 2022-08-04 2028-12-25 2023-18-09	208861 208863 208863 208863 208863 208863 208861 208862	35800 40000 25800 35000 30000 55000 25000 90000	0.200 8.130 6.200 0.090 0.120 8.250 0.235	PRIVIDENT. PRIGORIZ	0P1001 0P1005 0P1005 0P1007 0P1002 0P1005 0P1003 0P1003
emplinyee_id EMPORI EMP	first_mame Ramina Furbana Tabein Mujibur Musyba Tabmina Wolld Hefoyet Rebnums	Sharar Yasasin Nahaan Rahaan Reha Chowdhury Johin Tariq Islam	ramisa, shanangymall.com farhama,yasminigmall.com tahtan,yasminigmall.com mujib,yammanigmall.com muyba,nehagymall.com taheira,chonelhuyigmall.com walld.jahiniyahoo.com nehayat.tariagyahoo.com remama.ilangkahoo.com	01747275978 01790364448 01790500008 01710274026 01790564448 01731111118 01733313338 01744444448 01755554448	2028-81-16 2021-01-31 2021-02-12 2022-03-10 2021-01-31 2022-06-04 2028-12-25 2023-10-09 2028-07-01	308801 308803 308803 308803 308803 308803 308803 308803	35800 40600 25800 35000 35000 55000 25000 90000 55000	0.200 0.130 0.200 0.000 0.120 0.230 0.050 0.235 0.235	PRIGRET. PRIGRED PRIGRED PRIGRET PRIGRET PRIGRET PRIGRET PRIGRET PRIGRET PRIGRET PRIGRED PRIGRED PRIGRED	CPT001 CPT005 CPT005 CPT002 CPT002 CPT005 CPT003 CPT003 CPT003
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Task1: Find the first_name, last_name, email, phone_number, hire_date and department_id of all the employees with the latest hire_date.

Command: select first_name, last_name, email, phone_number, hire_date, department_id from employees where hire_date=(select max(hire_date) from employees);

Task2: Find the *first_name*, *last_name*, *employee_id*, *phone_number*, *salary* and *department_id* of all the employees with the lowest salary in each department.

Command: select first_name, last_name, employee_id, phone_number, salary, department_id from employees where (department_id, salary) in (select department_id, min(salary) from employees group by department_id);

first_name	last_name	employee_id	phone_number	salary	department_id	
Farhana	Yasmin	EMP082	81786364448	40000	DPT005	T
Tahsin	Rahman	EMP003	81789889988		DPT001	
Mujibur	Rahman	EMP004	01716274626	35888	DPT007	
Nusyba	Neha	EMP005	01706364448	38888	DPT002	
Walid	Jahin	EMP007	01733333338	25888	DPT003	
Shariar	Shaikat	EMP010	017333334448	68888	DPT004	

<u>Task3:</u> Find the *first_name*, *last_name*, *employee_id*, *commission_pct* and *department_id* of all the employees in the department 'DPT007' who have a lower commission_pct than all of the employees of the department 'DPT005'.

Command: select e1.first_name, e1.last_name, e1.employee_id, e1.commission_pct, e1.department_id from employees e1 where e1.department_id = 'DPT007' and e1.commission_pct < (select min(e2.commission_pct) from employees e2 where e2.department_id = 'DPT005');



<u>Task4:</u> Find the department_id and total number of employees of each department which does not have a single employee under it with a salary more than 30,000.

<u>Command:</u> select department_id, count(employee_id) as total_employees from employees group by department_id having max(salary) <= 30000;



<u>Task5:</u> For each of the departments, find the department_id, job_id and commission_pct with commission_pct less than at least one other job_id in that department.

Command: select e1.department_id, e1.job_id, e1.commission_pct from employees e1 where e1.commission_pct < any(select e2.commission_pct from employees e2 where e2.department_id = e1.department_id and e2.job_id <> e1.job_id);

<u>Task6:</u> Find the *manager_id* who does not have any employee under them with a *salary* less than 3500.

<u>Command:</u> select manager_id from employees group by manager_id having min(salary) >= 3500;

```
MariaDB [21301423_ramisa]> select manager_id from employees group by manager_id having min(salary) >= 3500;
+-----+
| manager_id |
+-----+
| MNG001 |
| MNG002 |
| MNG003 |
| MNG007 |
+------+
4 rows in set (0.001 sec)
```

<u>Task7:</u> Find the first_name, last_name, employee_id, email, salary, department_id and commission_pct of the employee who has the lowest commission_pct under each manager.

Command: select e.first_name, e.last_name, e.employee_id, e.email, e.salary, e.department_id, e.commission_pct from employees e where (e.manager_id, e.commission_pct) in (select manager_id, min(commission_pct) from employees group by manager_id);

first name	Tact name	employee id	andi	co]2#V	denortment id	comission pct	
14121 Name	2031_10110	controler_ra		30201 }	achae ment 7a	<u>-</u>	
Nusyba	Neha	EMP885	nusyba.neha@gmail.com	38888	DPT092	8.129	
Tahmina	Chowdhury	EM1986	tahmina.chowdhury@gmail.com	55000	OPT005	0.230	
Walid	Jahin	EMP887	walid.jahin@yahoo.com	25000	OPT003	8.858	
Rehnuna	Islan	EMP009	rehnuma.islam@yahoo.com	55000	OPT003	8.129	