

# **HomeWork 3**

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**CSE370 Lab**

**Section 04**

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Hardy	Lissett	hlissett0@mayoclinic.com	7831866886	2023-01-07	JOB002	43270	79.690	MNG001	DPT001
EMP002	Bobine	Ubee	bubee1@woothemes.com	4602852149	2023-03-19	JOB002	38790	13.053	MNG001	DPT001
EMP003	Tabbi	Hasely	thasely2@pcworld.com	3924041751	2023-05-31	JOB004	89751	22.433	MNG001	DPT002
EMP004	Staford	Bowling	sbowling3@state.gov	1154488469	2023-02-25	JOB004	88177	35.087	MNG002	DPT003
EMP005	Sheffield	Bartalon	sbartalon4@homestead.com	1207546710	2023-05-31	JOB001	58354	89.393	MNG002	DPT007
EMP006	Karlan	Ody	kody5@spiegel.de	8235523105	2023-05-18	JOB001	30413	13.087	MNG003	DPT004
EMP007	Flss	Kimm	fkimm6@webnode.com	2748462533	2022-08-03	JOB007	32095	11.373	MNG003	DPT004
EMP008	Luz	Golsworthy	lgolsworthy7@google.ca	8993457537	2023-05-31	JOB007	41587	69.494	MNG003	DPT005
EMP009	Lanie	Gonning	lgonning8@fc2.com	3649021708	2023-05-06	JOB009	37481	50.296	MNG003	DPT007
EMP010	Emiline	Bortoloni	ebortoloni9@bloomberg.com	4078733603	2022-09-18	JOB001	12772	72.221	MNG004	DPT006
EMP011	Hawak	Chowdhury	ebor@bloorg.com	4078756703	2021-09-18	JOB002	1772	70.221	MNG004	DPT006

I am using this dataset for the sql table.

Task 1:

select first\_name,last\_name,email,phone\_number,hire\_date,department\_id from employees where hire\_date = last\_day(hire\_date);

```
mysql> select first_name,last_name,email,phone_number,hire_date,department_id from employees where hire_date = last_day(hire_date);
```

first_name	last_name	email	phone_number	hire_date	department_id
Tabbi	Hasely	thasely2@pcworld.com	3924041751	2023-05-31	DPT002
Sheffield	Bartalon	sbartalon4@homestead.com	1207546710	2023-05-31	DPT007
Luz	Golsworthy	lgolsworthy7@google.ca	8993457537	2023-05-31	DPT005

3 rows in set (0.00 sec)

Task 2:

select first\_name, last\_name, employee\_id, phone\_number, salary, department\_id from employees where salary in (select min(salary) from employees group by department\_id);

```
mysql> select first_name, last_name, employee_id, phone_number, salary, department_id from employees where salary in (select min(salary) from employees group by department_id);
```

first_name	last_name	employee_id	phone_number	salary	department_id
Bobine	Ubee	EMP002	4602852149	38790	DPT001
Tabbi	Hasely	EMP003	3924041751	89751	DPT002
Staford	Bowling	EMP004	1154488469	88177	DPT003
Karlan	Ody	EMP006	8235523105	30413	DPT004
Luz	Golsworthy	EMP008	8993457537	41587	DPT005
Lanie	Gonning	EMP009	3649021708	37481	DPT007
Hawak	Chowdhury	EMP011	4078756703	1772	DPT006

7 rows in set (0.01 sec)

### Task 3:

select first\_name, last\_name, employee\_id, commission\_pct, department\_id from employees where department\_id = 'DPT007' and commission\_pct < (select min(commission\_pct) from employees where department\_id = 'DPT005');

```
mysql> select first_name, last_name, employee_id, commission_pct, department_id from employees where department_id = 'DPT007' and commission_pct < (select min(commission_pct) from employees where department_id = 'DPT005');
+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | commission_pct | department_id |
+-----+-----+-----+-----+-----+
| Lanie      | Ganning   | EMP009      | 50.296         | DPT007        |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

### Task 4:

select department\_id, count(\*) as total\_no\_employees from employees group by department\_id having max(salary) <= 30000;

```
mysql> select department_id, count(*) as total_no_employees from employees group by department_id having max(salary) <= 30000;
+-----+-----+
| department_id | total_no_employees |
+-----+-----+
| DPT006        | 2                  |
+-----+-----+
1 row in set (0.00 sec)
```

### Task 5:

select department\_id, job\_id, commission\_pct from employees e1 where exists(select \* from employees e2 where e1.employee\_id != e2.employee\_id and e1.department\_id = e2.department\_id and e1.commission\_pct < e2.commission\_pct);

```
mysql> select department_id, job_id, commission_pct from employees e1 where exists(select * from employees e2 where e1.employee_id != e2.employee_id and e1.department_id = e2.department_id and e1.commission_pct < e2.commission_pct);
+-----+-----+-----+
| department_id | job_id | commission_pct |
+-----+-----+-----+
| DPT001        | JOB002 | 13.053         |
| DPT004        | JOB007 | 11.373         |
| DPT007        | JOB009 | 50.296         |
| DPT006        | JOB002 | 70.221         |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

## Task 6:

select distinct manager\_id from employees e1 where not exists (select \* from employees e2 where e1.manager\_id = e2.manager\_id and e2.salary < 3500);

```
mysql> select distinct manager_id from employees e1 where not exists (select * from employees e2 where e1.manager_id = e2.manager_id and e2.salary < 3500);
+-----+
| manager_id |
+-----+
| MNG001     |
| MNG002     |
| MNG003     |
+-----+
3 rows in set (0.01 sec)
```

## Task 7:

select first\_name, last\_name, employee\_id, email, salary, department\_id, commission\_pct from employees e1 where not exists (select \* from employees e2 where e1.manager\_id = e2.manager\_id and e1.commission\_pct > e2.commission\_pct);

```
mysql> select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employees e1 where not exists (select * from employees e2 where e1.manager_id = e2.manager_id and e1.commission_pct > e2.commission_pct);
+-----+-----+-----+-----+-----+-----+-----+
| first_name | last_name | employee_id | email | salary | department_id | commission_pct |
+-----+-----+-----+-----+-----+-----+-----+
| Bobine     | Ubee      | EMP002      | bubee1@woothemes.com | 38790 | DPT001        | 13.053         |
| Stafford   | Bowling   | EMP004      | sbowling3@state.gov   | 88177 | DPT003        | 35.087         |
| Flss       | Kimm      | EMP007      | fkimm6@webnode.com    | 32095 | DPT004        | 11.373         |
| Hawak      | Chowdhury | EMP011      | ebor@bloorg.com       | 1772  | DPT006        | 70.221         |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```