# پاسخنامه تکلیف پنجم درس پایگاه داده ها ۱ ترم یاییز ۱۳۹۹

#### 1.a)

select id,name,dept\_name,salary, lag(salary,1) over(partition by dept\_name order by salary) first\_smaller\_salary from instructor;

#### 1.b)

select id,name,tot\_cred,dense\_rank() over(order by tot\_cred desc) std\_rank
from student;

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#### 2)

#### 3.a)

## 3.b)

## 3.c)

```
select p1.customer_id,p1.payment_date::date,sum(p2.amount)
from payment p1 inner join payment p2 on
p1.customer_id = p2.customer_id and p1.payment_date::date >=
p2.payment_date::date
and p1.payment_id >= p2.payment_id
group by p1.customer_id,p1.payment_date::date,p1.payment_id
order by customer_id,payment_date
```

# 3.d)

select country, city,

# 3.f)