# DBS311E Lab 4 *– E-Mail submission only, your document must have both SELECT statements and the OUTPUTS.*

# Subject of your mail must be like 311-Lab4 by Smith, John

# *Due by Friday, February 19th by 9pm*

## Questions 1 and 2 use DEMO (HR) schema, while questions 3 to 6 use PRODUCT schema

1. The HR department needs a list of Department IDs for departments that do not contain the job ID of ST\_CLERK. Exclude NULL departments from your result. Use a set operator to create this list.

select department\_id

from department

minus

select department\_id

from employee

where upper(job\_id) like '%ST\_CLERK%'

order by 1;

OUTPUT



1. Display list with employee’s Id, Job Id and Salary that will include the current job and salary and all previous Jobs , if they have them (here you will display salary of -1). Use a set operator for this report.

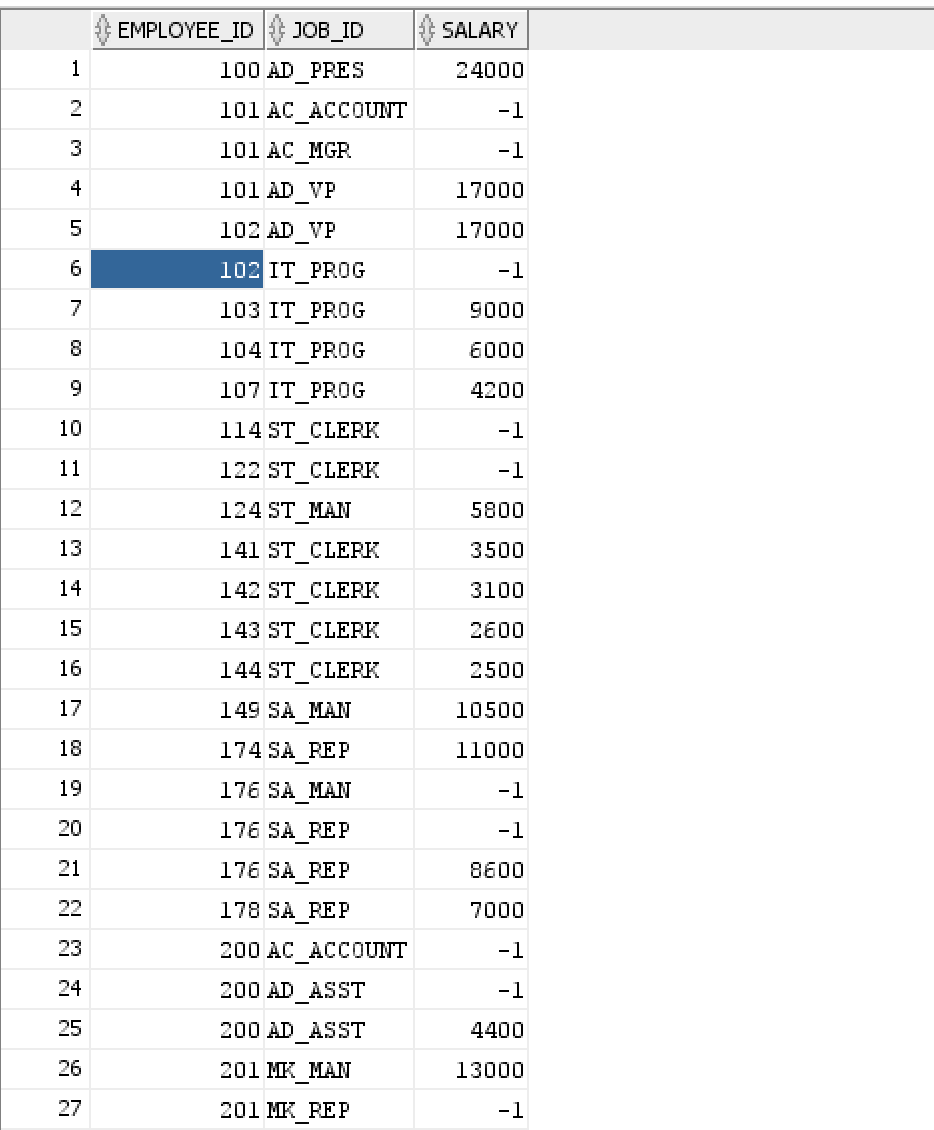
select employee\_id, job\_id,salary

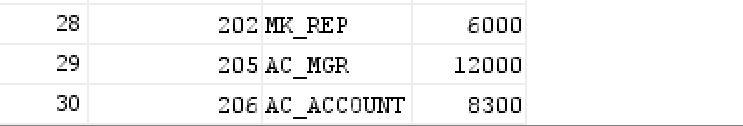
from employee

union

select employee\_id, job\_id , -1

from job\_history;

Output:



1. Display cities that no warehouse is located in them. Use set operator to answer this question.

select city

from locations

where location\_id in ( select location\_id

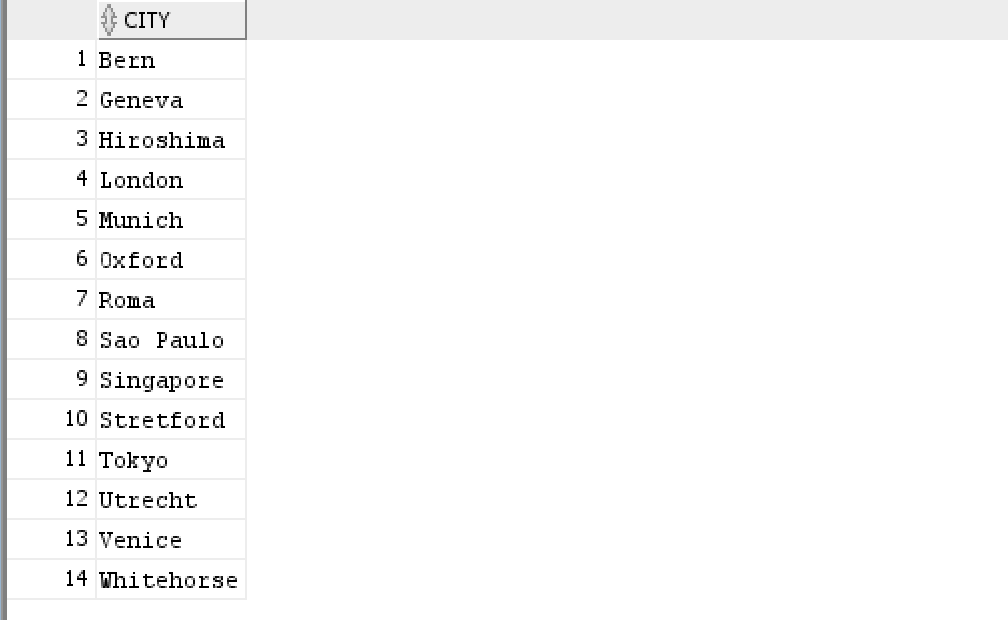
from locations

minus

select location\_id from

warehouses)

order by 1;

OUTPUT:

1. Display the category ID, category name, and the number of products in category 1, 2, and 5. In your result, display first the number of products in category 5, then category 1 and then 2.

Use ANY method to solve this problem.

select category\_id, category\_name,count(\*) as"total\_number"

from products

join product\_categories using (category\_id)

where category\_id = any(select category\_id

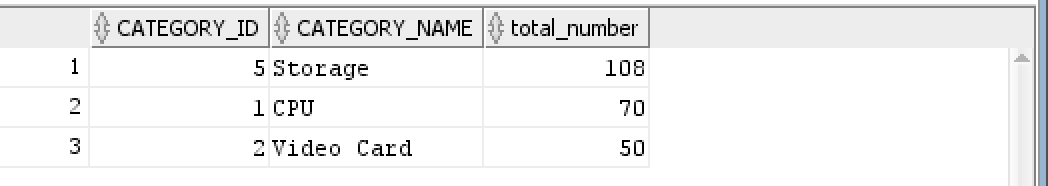
from products

where category\_id in (1,2,5))

group by category\_id,category\_name

order by 3 DESC;

OUTPUT:



1. Display product ID for ordered products whose quantity in the inventory is greater than 250. (You are not allowed to use JOIN for this question.)

select product\_id

from order\_items

intersect

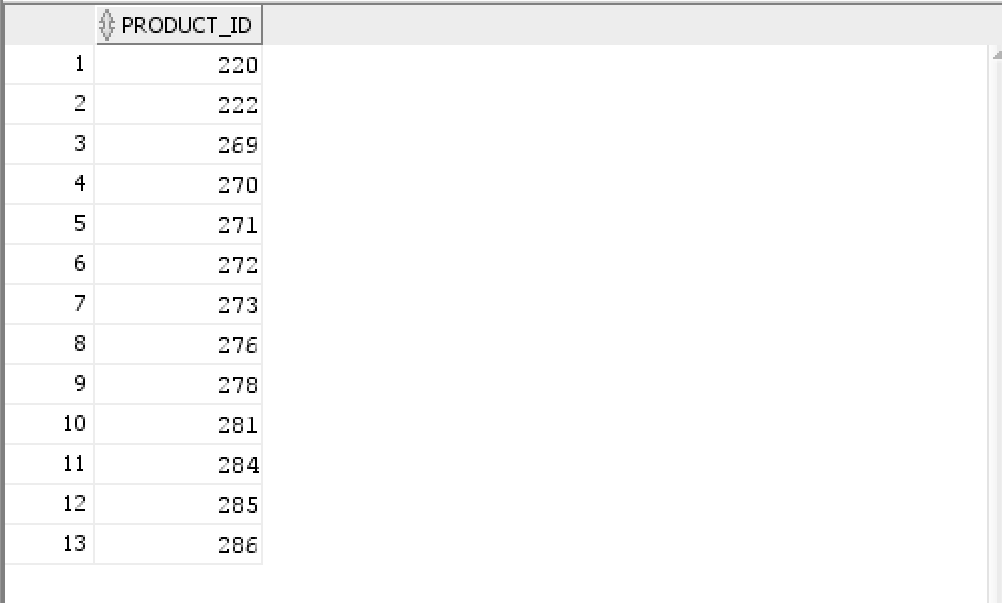
select product\_id

from order\_items

where product\_id in (select product\_id from inventories

where quantity > 250);

Output:



1. We need a single report to display all warehouses and the city and state that they are located in, also all states regardless of whether they have warehouses in them or not.

If state value is blank, display **No State**.

Here is a partial output:

**Loc# City State Warehouse**

**------- -------------------- ----------------- -----------------**

1 Roma No State

2 Venice No State

3 Tokyo Tokyo Prefecture

4 Hiroshima No State

5 Southlake Texas

5 Southlake, Texas

6 South San Francisco California

6 San Francisco

select location\_id, nvl(to\_char(null),' ') as "city" ,

nvl(to\_char(null),'No State') as "state",

nvl(warehouse\_name,' ') as "warehouse"

from warehouses

union

select location\_id,nvl(city,' '), nvl(state,'No State')

,nvl(to\_char(null),' ') as "warehouse"

from locations

order by 1,4;

Output:

