--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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--Purpose: Lab 4 DBS311

--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--Q1 Display cities that no warehouse is located in them. (use set operators to answer this question).--

--Q1 Solution--

SELECT

city

FROM

locations MINUS

SELECT

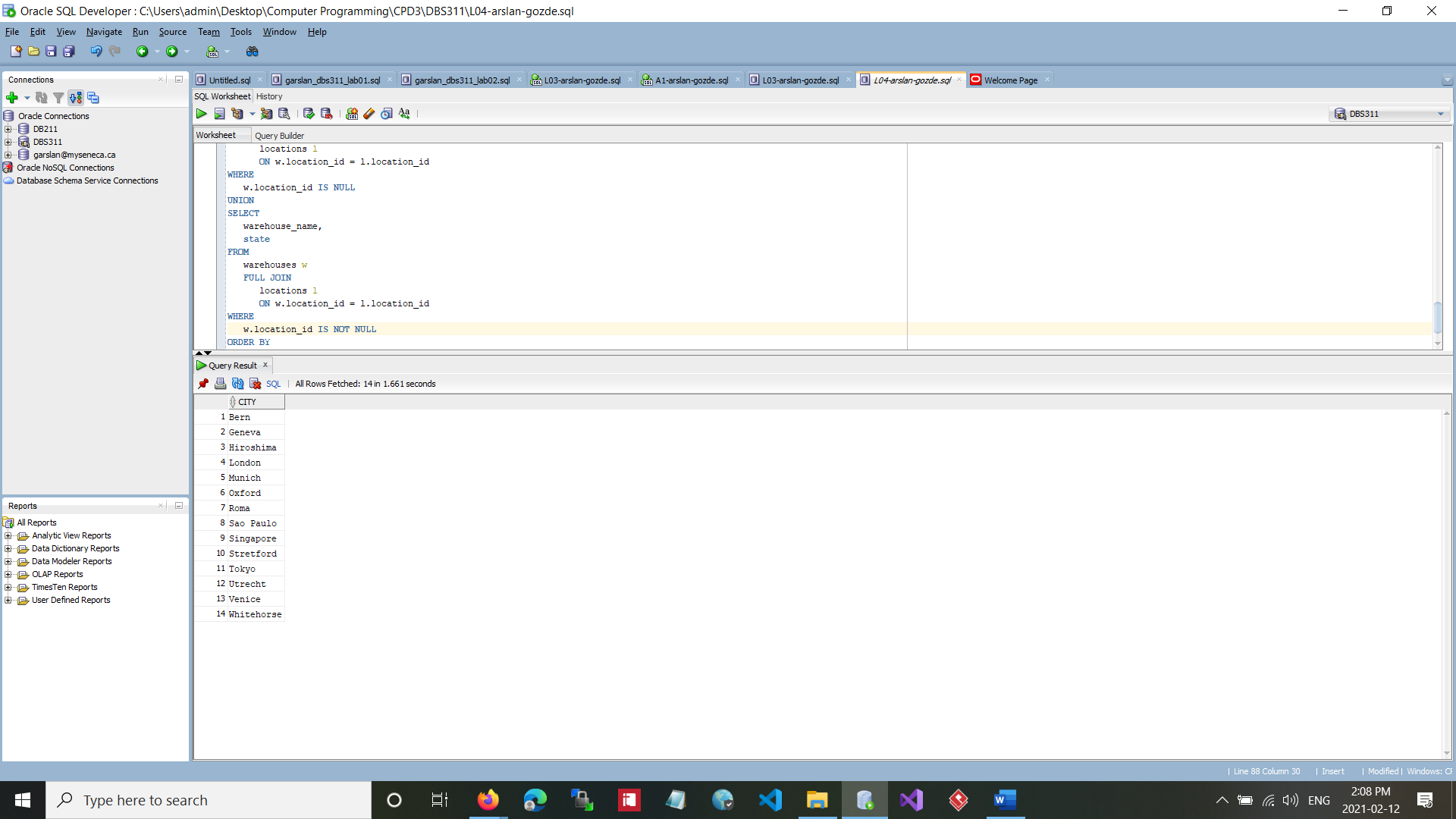
l.city

FROM

locations l,

warehouses w

WHERE

l.location\_id = w.location\_id; 

--Q2 Display the category ID, category name,and the number of products in category1, 2, and 5. In your result, display first the number of products in category 5, then category 1 and then 2.--

--Q2 Answer--

SELECT

pc.category\_id,

pc.category\_name,

COUNT(product\_id)

FROM

product\_categories pc

JOIN

products p

ON pc.category\_id = p.category\_id

WHERE

p.category\_id = 5

GROUP BY

pc.category\_id,

pc.category\_name

UNION ALL

SELECT

pc.category\_id,

pc.category\_name,

COUNT(product\_id)

FROM

product\_categories pc

JOIN

products p

ON pc.category\_id = p.category\_id

WHERE

p.category\_id = 1

GROUP BY

pc.category\_id,

pc.category\_name

UNION ALL

SELECT

pc.category\_id,

pc.category\_name,

COUNT(product\_id)

FROM

product\_categories pc

JOIN

products p

ON pc.category\_id = p.category\_id

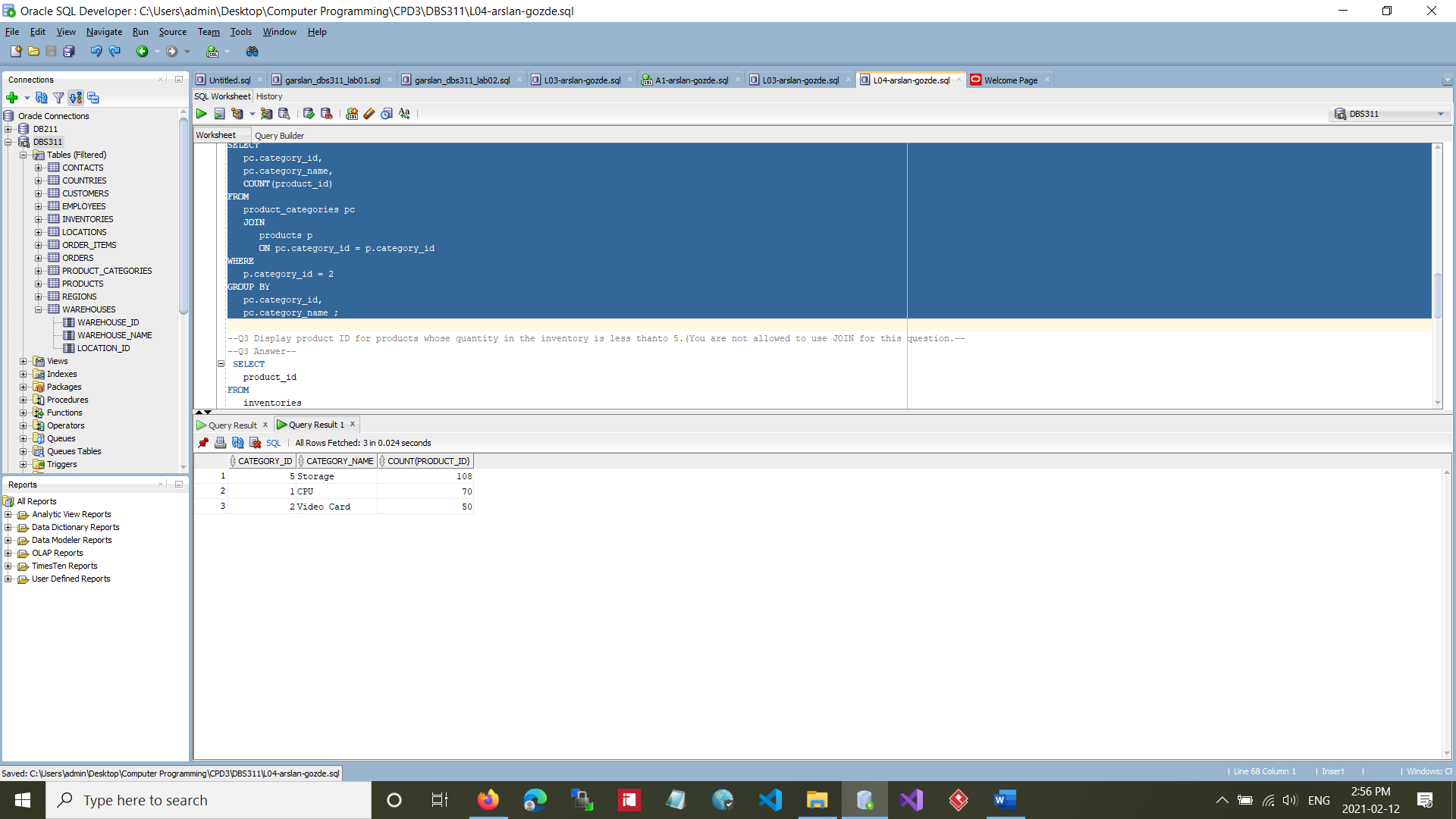
WHERE

p.category\_id = 2

GROUP BY

pc.category\_id,

pc.category\_name ;



--Q3 Display product ID for products whose quantity in the inventory is less thanto 5.(You are not allowed to use JOIN for this question.--

--Q3 Answer--

SELECT

product\_id

FROM

inventories

WHERE

quantity < 5

UNION

SELECT

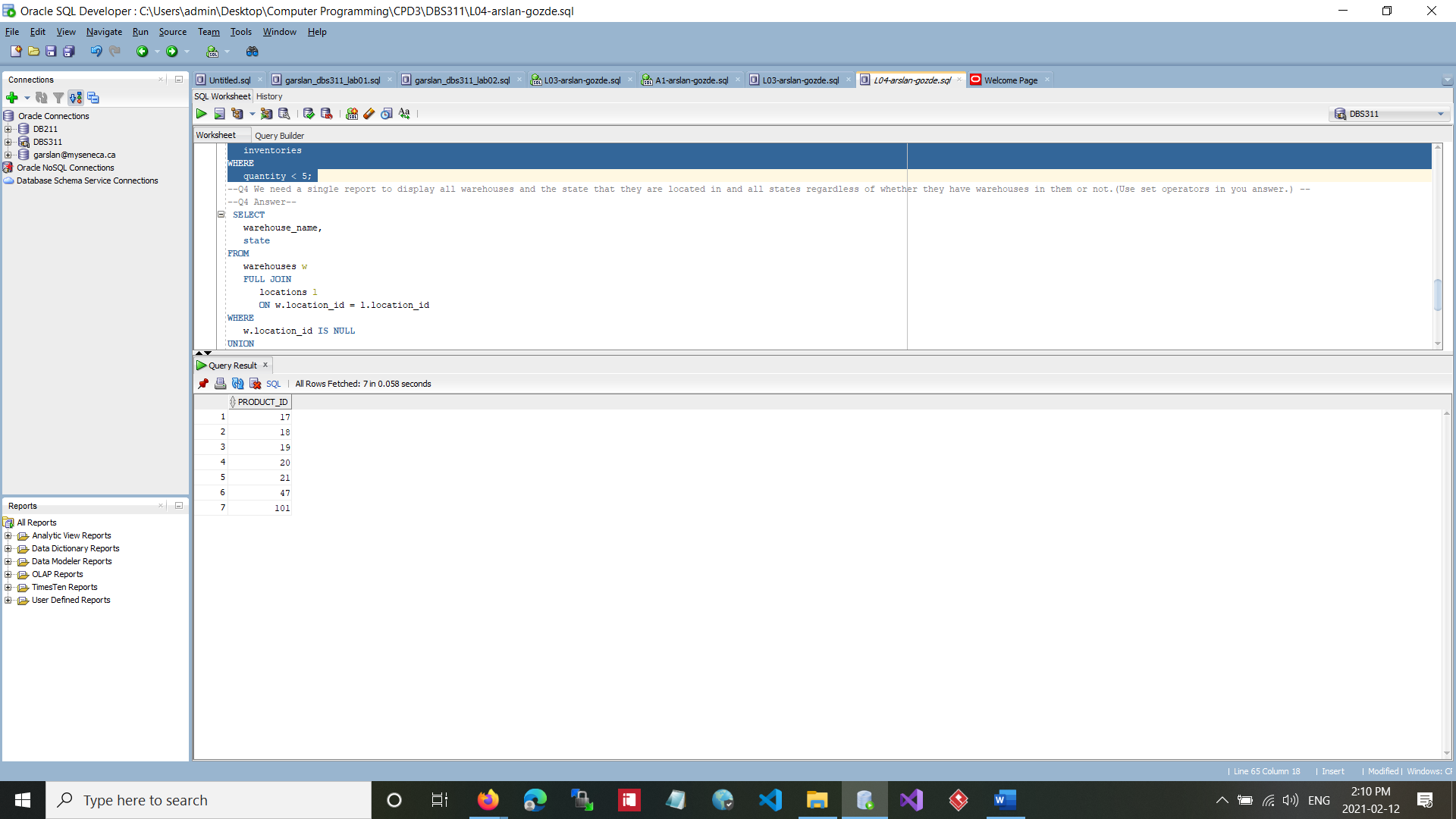
product\_id

FROM

inventories

WHERE

quantity < 5;



--Q4 We need a single report to display all warehouses and the state that they are located in and all states regardless of whether they have warehouses in them or not.(Use set operators in you answer.) --

--Q4 Answer--

SELECT

warehouse\_name,

state

FROM

warehouses w

FULL JOIN

locations l

ON w.location\_id = l.location\_id

WHERE

w.location\_id IS NULL

UNION

SELECT

warehouse\_name,

state

FROM

warehouses w

FULL JOIN

locations l

ON w.location\_id = l.location\_id

WHERE

w.location\_id IS NOT NULL

ORDER BY

warehouse\_name,

state;

