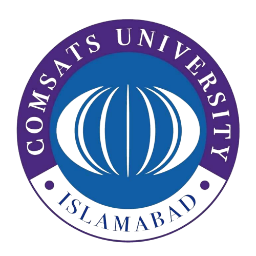
**COMSATS University Islamabad**

** Sahiwal Campus**

**MID LAB DATABASE**

**Submitted by:**

Mah Noor

FA23-BCS-332

DATA BASE

**Submitted to:**

Mam Hamna Khalid

CUI, Sahiwal

**Question 1 :**

**CODE**

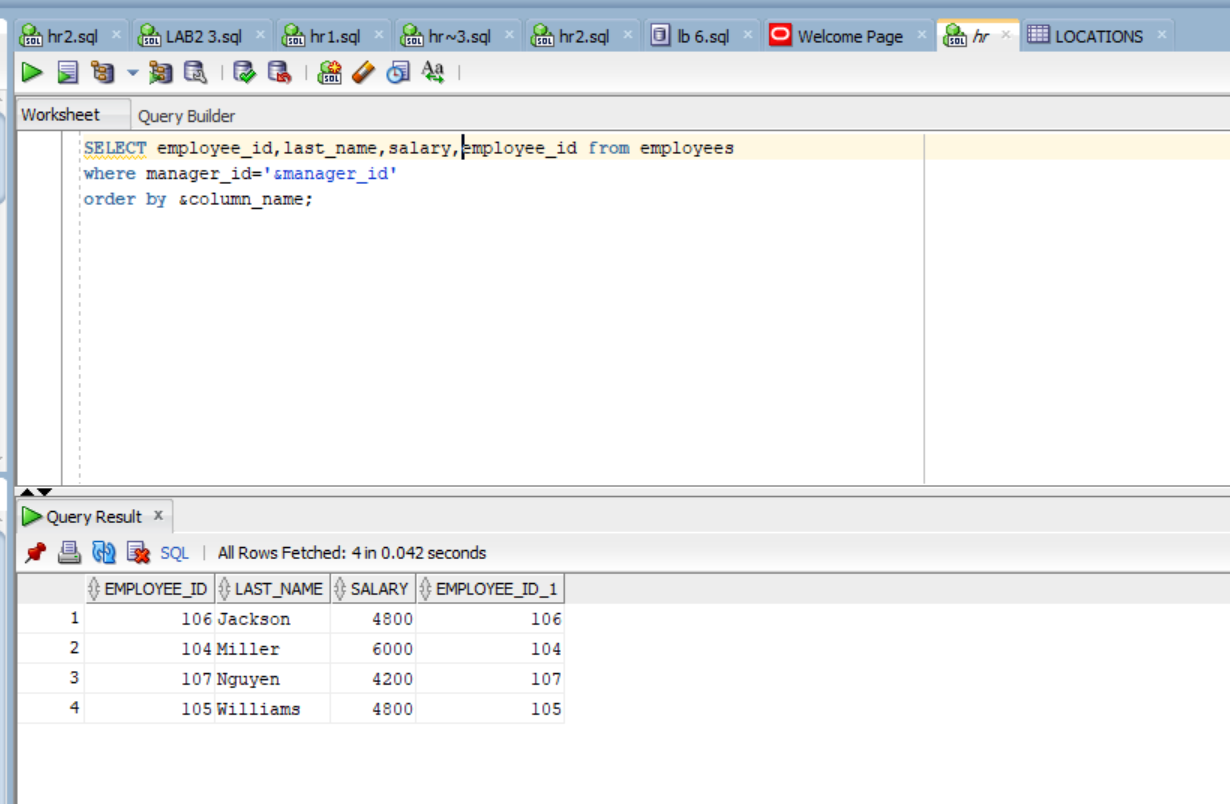
--SELECT employee\_id, last\_name

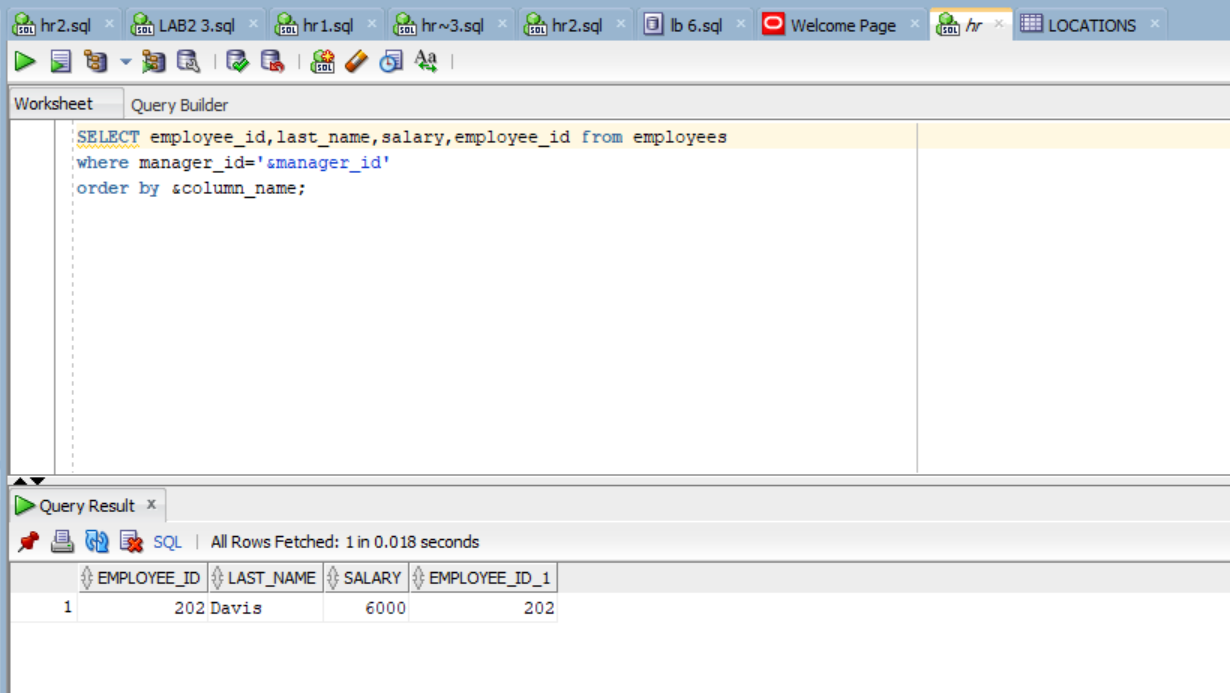
--FROM employees

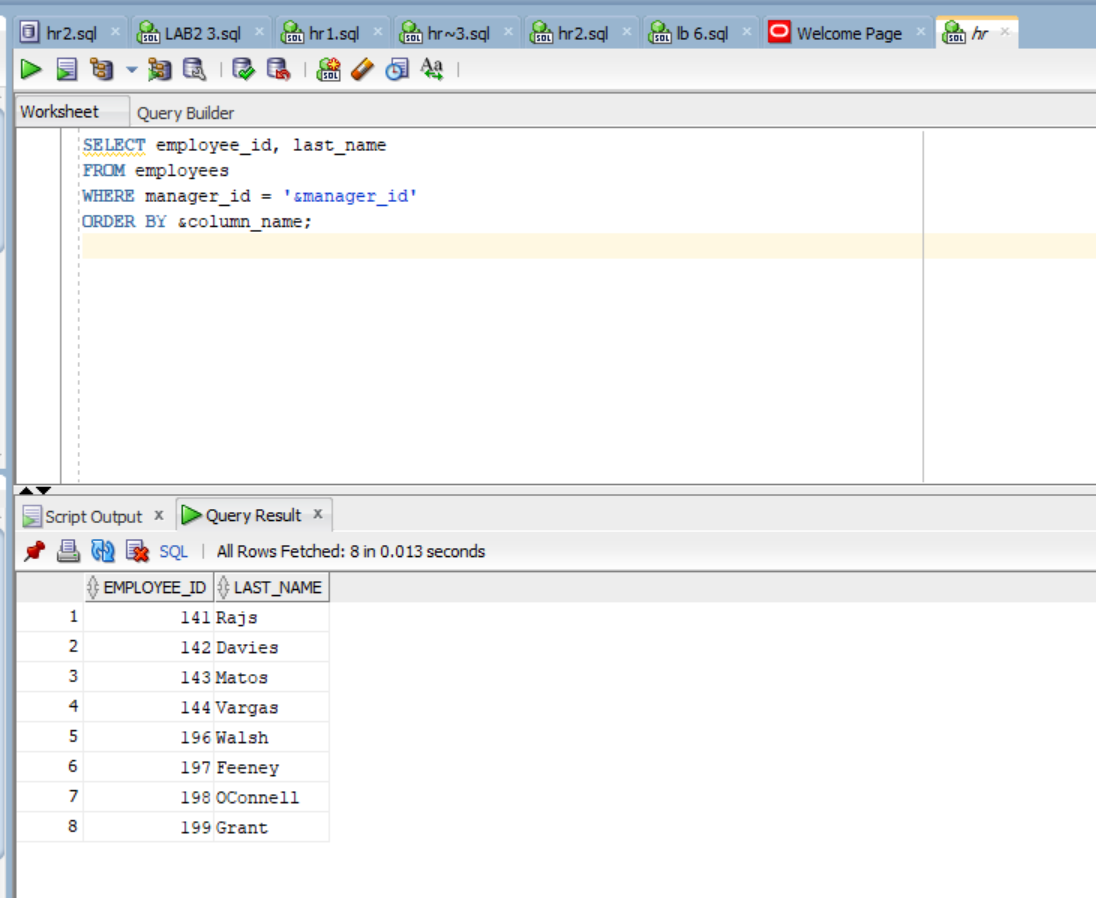
--WHERE manager\_id = '&manager\_id'

--ORDER BY &column\_name;

**SCREENSHOT:**







**Question 2:**

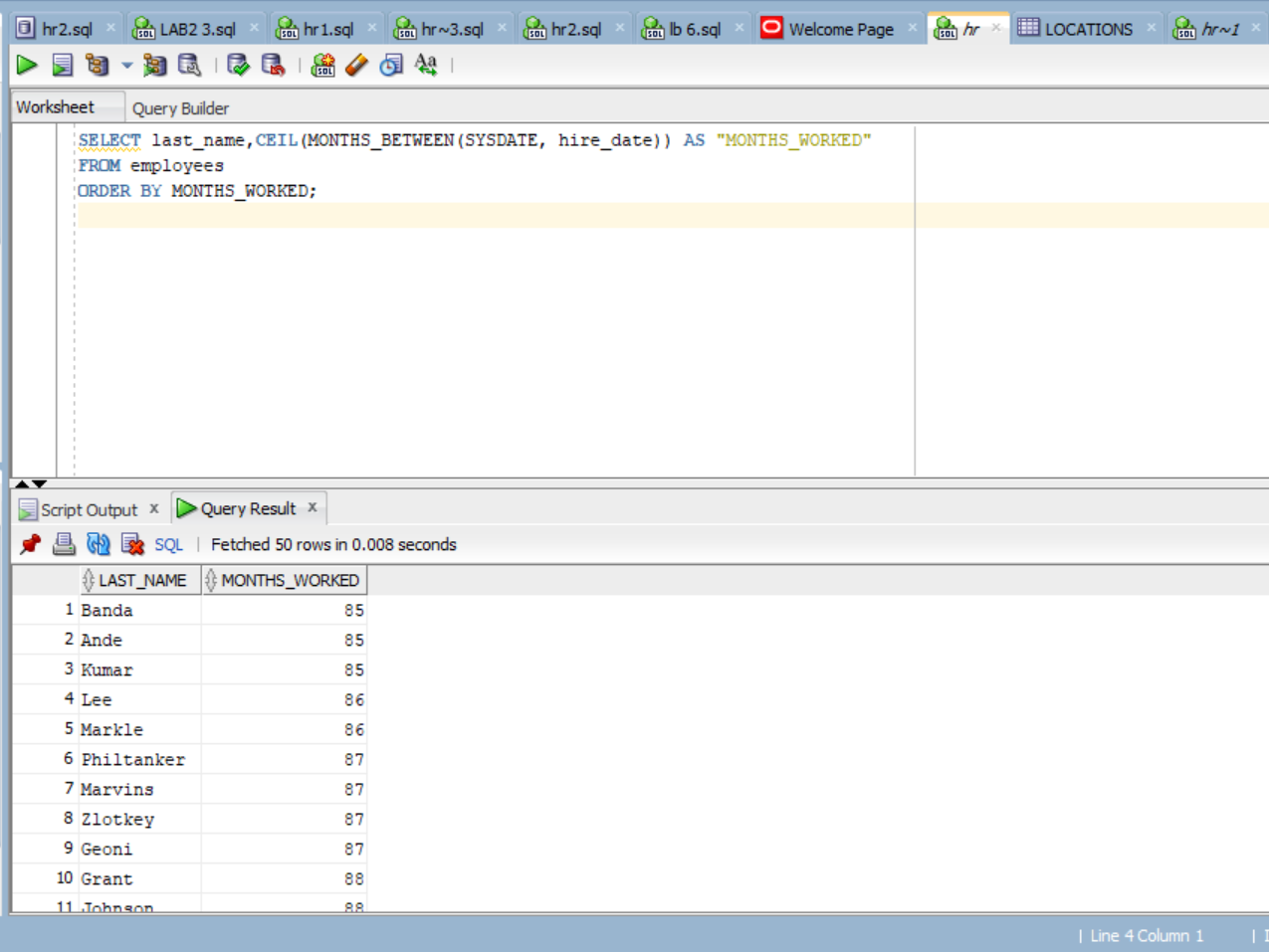
**CODE**

SELECT last\_name,CEIL(MONTHS\_BETWEEN(SYSDATE, hire\_date)) AS "MONTHS\_WORKED"

FROM employees

ORDER BY MONTHS\_WORKED;

**SCREENSHOT:**



**Question 3 :**

**CODE**

SELECT manager\_id,MIN(salary) AS Lowest\_Salary

FROM employees

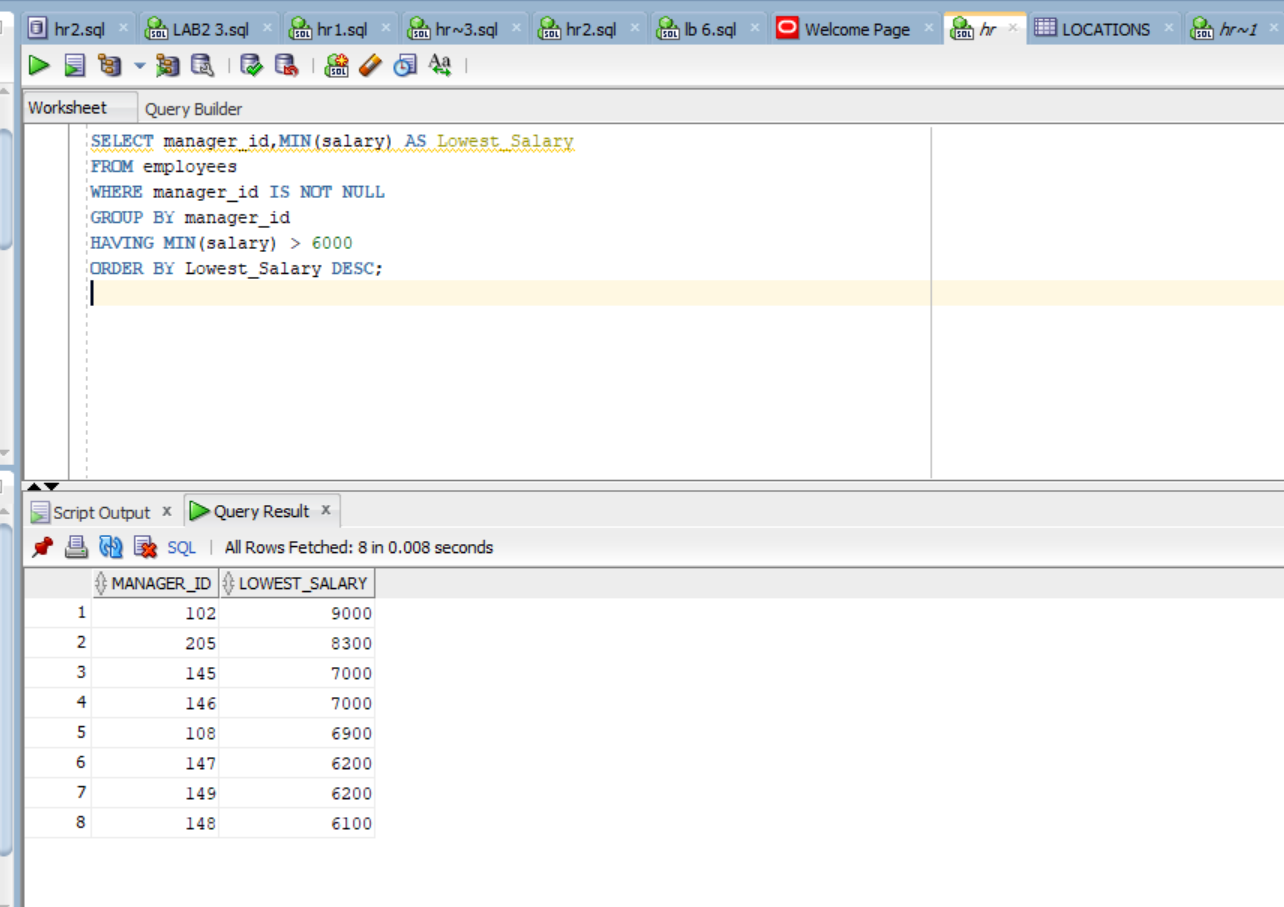
WHERE manager\_id IS NOT NULL

GROUP BY manager\_id

HAVING MIN(salary) > 6000

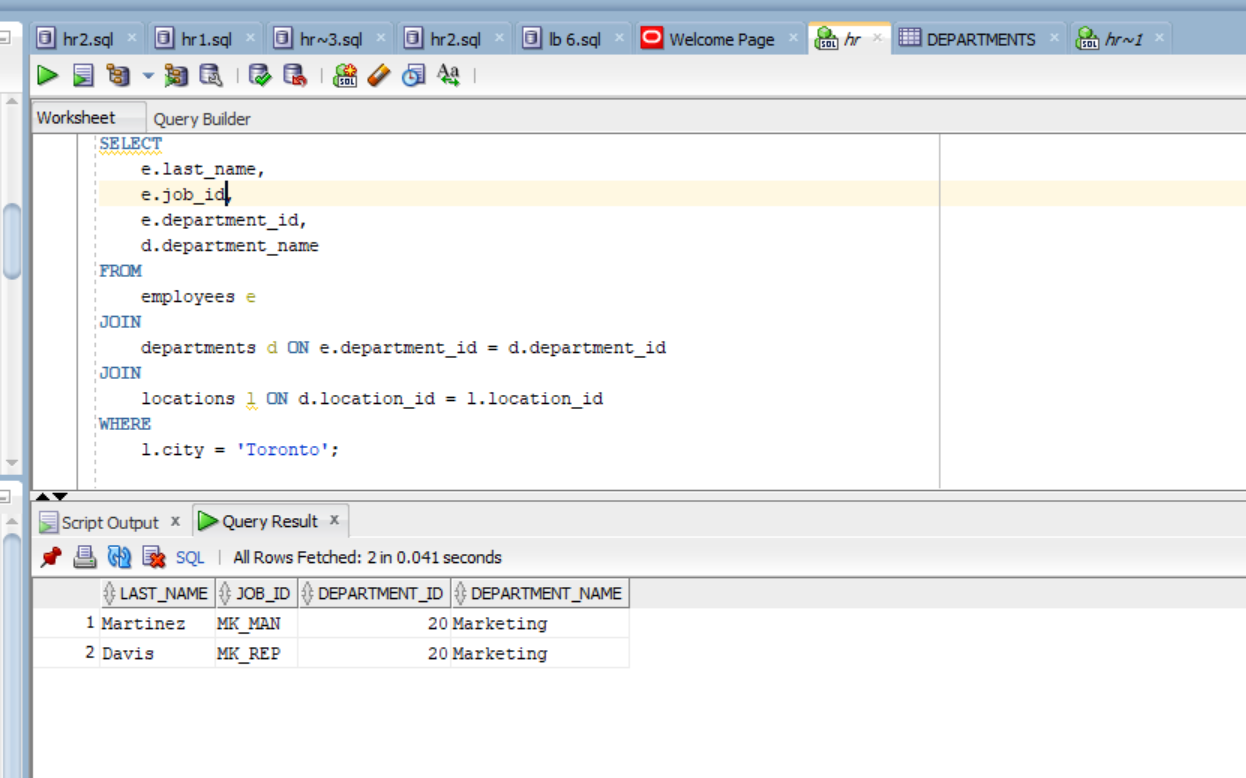
ORDER BY Lowest\_Salary DESC;

**SCREENSHOT:**



**Question 4 :**

**SCREENSHOT:**



**CODE**

SELECT

e.last\_name,

e.job\_id,

e.department\_id,

d.department\_name

FROM

employees e

JOIN

departments d ON e.department\_id = d.department\_id

JOIN

locations l ON d.location\_id = l.location\_id

WHERE

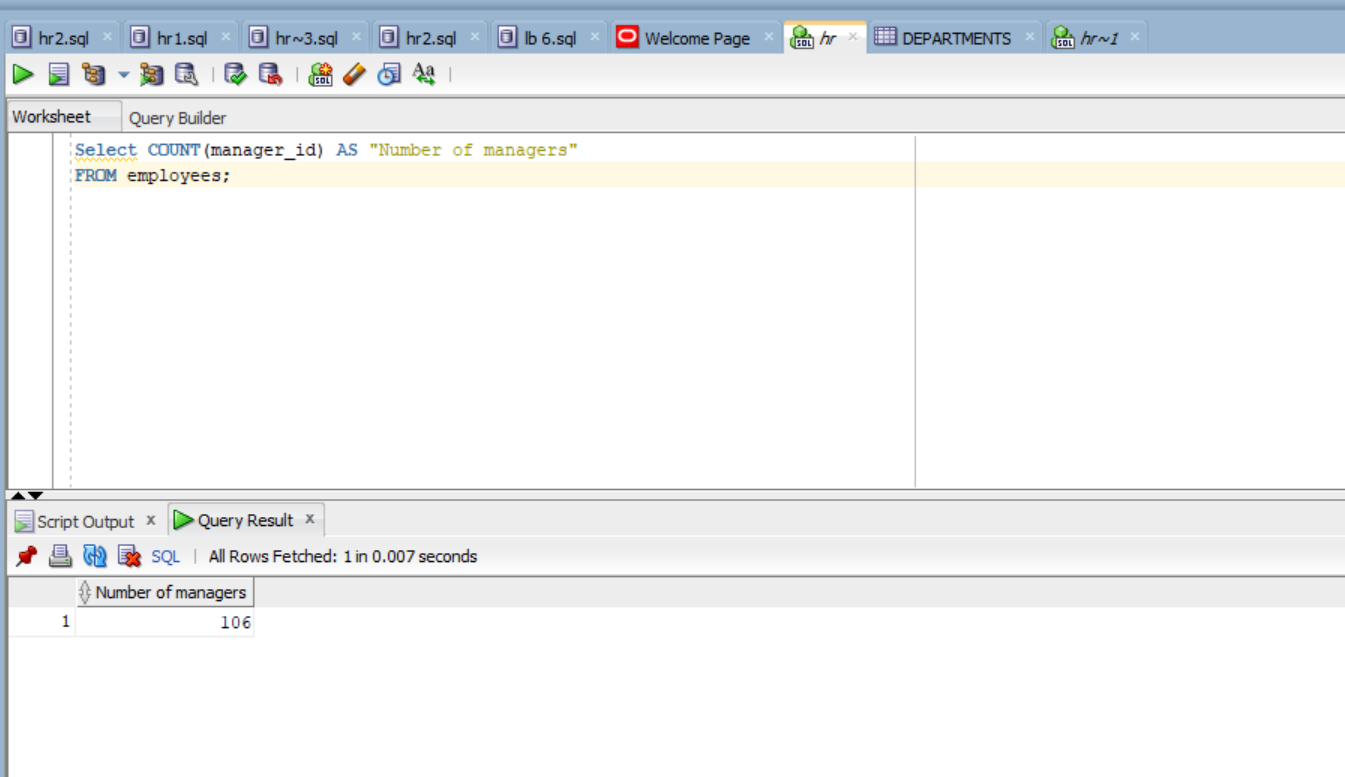
l.city = 'Toronto';

**Question 5 :**

**CODE**

Select Count(manager\_id) AS NUMBER OF MANAGERS FROM EMPLOYEES;

**SCREENSHOT:**

**Question 6 :**

**CODE**

SELECT e.First\_Name, e.Last\_Name

FROM Employees e JOIN Departments d ON e.Department\_ID = d.Department\_ID

JOIN Locations l ON d.Location\_ID = l.Location\_ID

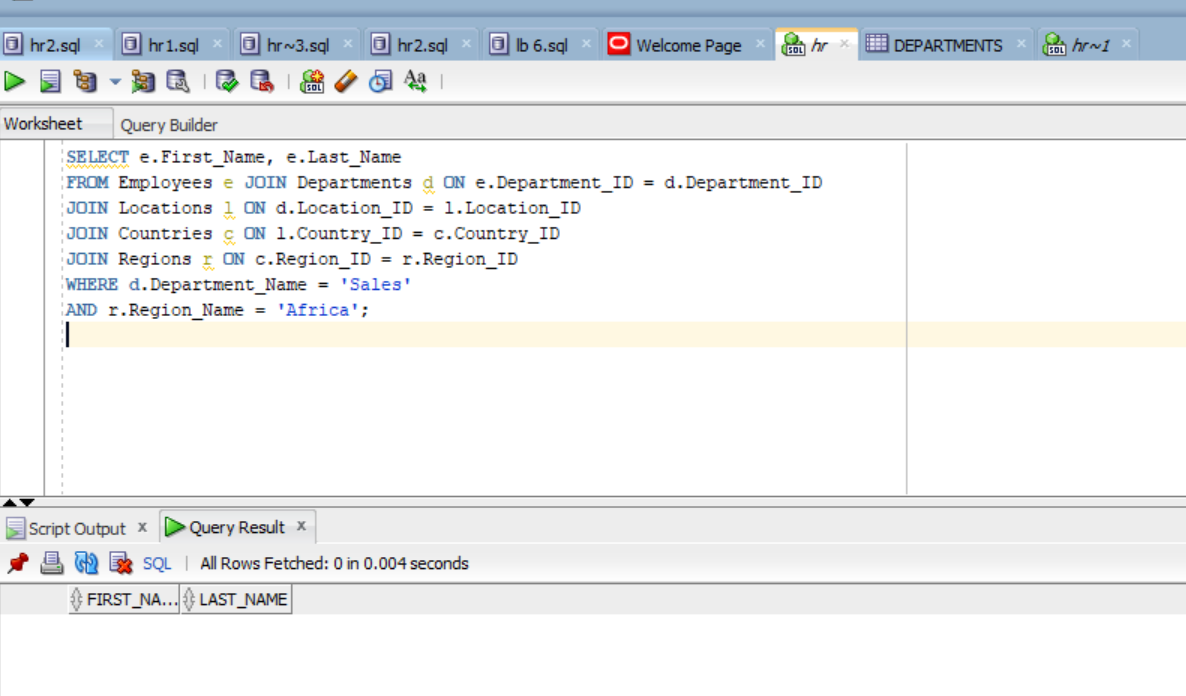
JOIN Countries c ON l.Country\_ID = c.Country\_ID

JOIN Regions r ON c.Region\_ID = r.Region\_ID

WHERE d.Department\_Name = 'Sales'

AND r.Region\_Name = 'africa';

**SCREENSHOT:**



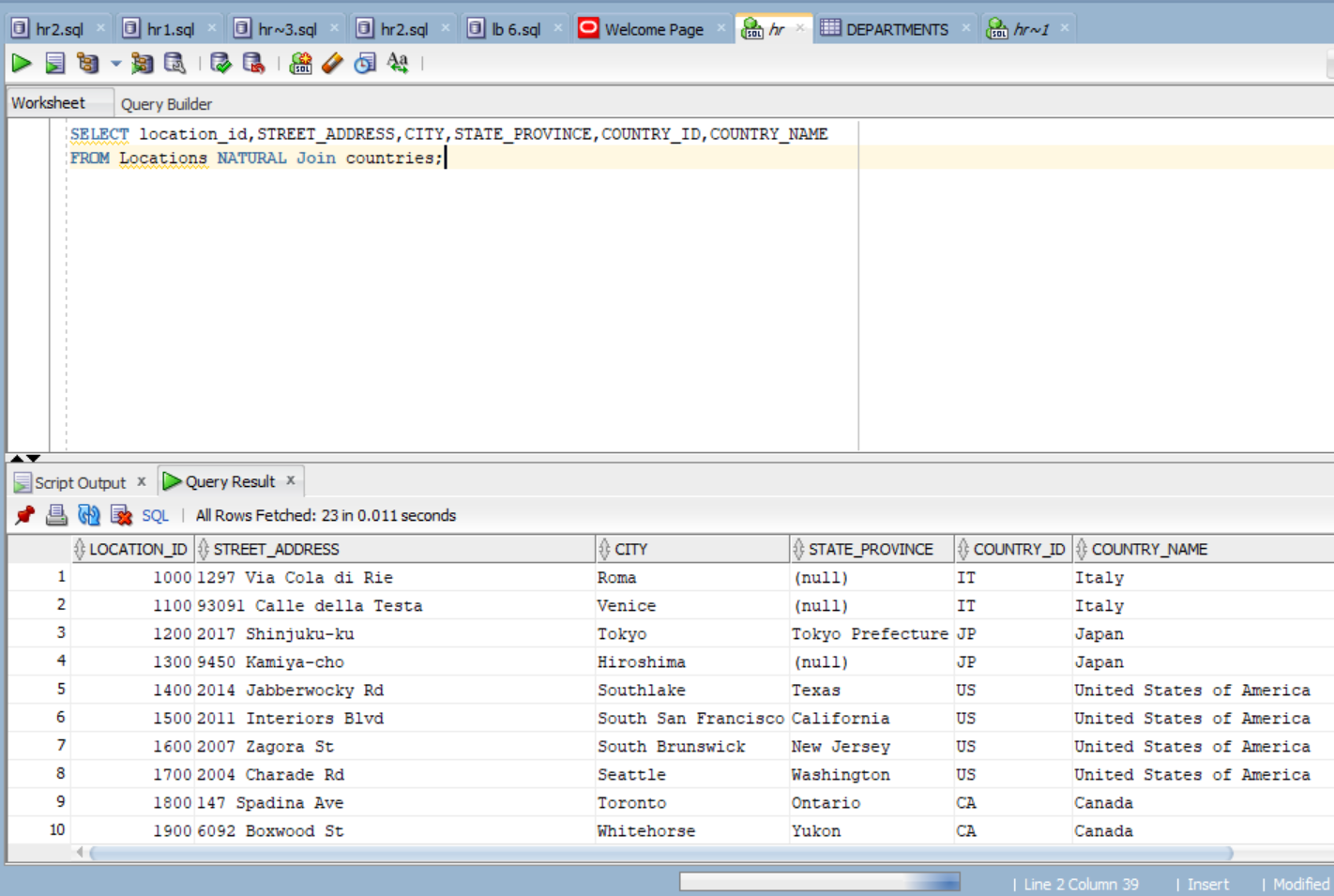
**Question 7 :**

**CODE**

SELECT location\_id,STREET\_ADDRESS,CITY,STATE\_PROVINCE,COUNTRY\_ID,COUNTRY\_NAME

FROM Locations NATURAL Join countries;

**SCREENSHOT:**



2