**TERM – WINTER 2023 **

| **Course & Section Code:** | **DBS501S1A** |
| --- | --- |
| **Course Name:** | **Procedure Using Oracles PL/SQL** |
| **Course Start & End Dates:** |  |
| **Q&A / Virtual Office Hour:** | **6:30 PM – 9:30 PM** |
| **Instructor Name & Email:** | **Ersan Cam: ersan.cam@senecacollege.ca** |

Lab#2 – Version 2

(Joins, Display data from multiple tables)

**Due Date : Feb 6th**

Instructions for delivery of this Labs file back to instructor.

**Step 1:** Download this word copy of Lab document.

**Step2:** Work on your question in SQL Developer.

**Step3:** Once you solve the problem copy paste the code under each question and Highlight with RED color

**Step4:** Also go to your Sql Developer and capture screen entire screen with command you execute and result at the bottom. Use Snipping tool in windows to capture screen shot. Below picture shows how to open free windows based snipping screen capture tool

Step5: Drop your finalized & saved word document to respective Lab dropbox assignment folder.

**Please note that Instructor has keep the right to call out any students randomly to ask demonstration their solution, and walk thru their work and justify their answers in one on one breakout room.**

**The tool to capture screen shot.**

Graphical user interface, text, application

Description automatically generated

**Demo Question.**

How to use SELECT with WHERE condition for table?

Demo Answer:

Copy paste of actual command: SELECT first\_name, last\_name FROM EMPLOYEES;

Demo Screen shot:

Copy paste screen shot of same command

Graphical user interface, text, application

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**Subject: Joining multiple tables.**

**Lab Questions .**

**Total 4 questions ,each 25 points, total 100**

**Use Dream Home (DH\_\*) database for question 1 and 2**

**Question #1**

List the names of all clients who have viewed a property along with any comment supplied.

select c.fname || ' ' || c.lname Name, p.street || ', ' || p.city || ', ' || p.postcode Address, nvl(v.comments,'No Comments') Comments

from dh\_client c, dh\_viewing v, dh\_propertyforrent p

where c.clientno = v.clientno

and p.propertyno = v.propertyno;

Graphical user interface, application

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**Question #2**

For each branch office, list the numbers and names of staff who manage properties, including the city in which the branch is located and the properties that the staff manage.

select s.fname || ' ' || s.lname Staff\_Name, s.telephone Staff\_Phone, s.mobile Staff\_Mobile, b.city Branch\_City, p.street || ', ' || p.city || ', ' || p.postcode Listings

from dh\_staff s, dh\_propertyforrent p, dh\_branch b

where s.staffno = p.staffno

and b.branchno = p.branchno

order by s.staffno;

Graphical user interface, text, application

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**Use HumanResources (HR) for question 3 and 4**

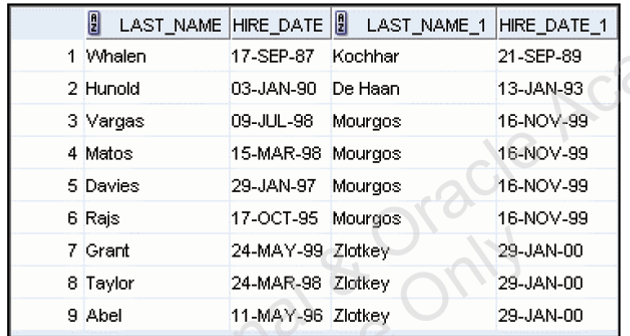
**For these below questions you can switch back to your original connection where you build HR tables already.**

**Question#3**

Human resources management team needs to find the name and hire\_date of all employees who were hired before their managers along with their manager’s names and hire dates.

Hint: Self Join

Sample output.



select e.last\_name, e.hire\_date, m.last\_name, m.hire\_date

from hr\_employees e, hr\_employees m

where e.manager\_id = m.employee\_id

and e.hire\_date < m.hire\_date;

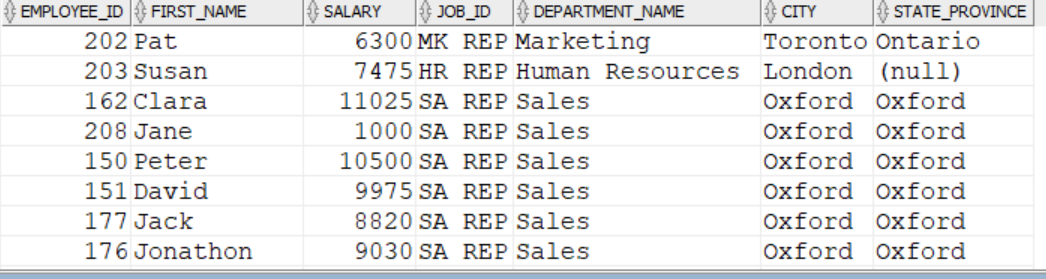
Table

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**Question 4**

Get all the employees (details are id, first\_name,salary, job\_id ,department number , city and state info) for those who has %REP% in their job\_id

Hint: Join … also use WHERE LIKE



select e.employee\_id, e.first\_name, e.salary, e.job\_id, d.department\_name, l.city, l.state\_province

from hr\_employees e, hr\_departments d, hr\_locations l

where e.department\_id = d.department\_id

and d.location\_id = l.location\_id

and e.job\_id like '%REP%';

Table

Description automatically generated