**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#3

(Subqueries, Set Operators)

**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

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**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

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**Each questions are equal mark (20 each)**

**Question#1 :**

List the properties that are handled by staff who work in the branch at ‘16 Argyll Street’

Hint : Sub query. Three tables are involving. FROM SH\_PropertyForRent to DH\_Staff to DH\_Branch

select p.propertyno, p.street, p.city, p.postcode, p.staffno, p.branchno

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

where b.branchno = p.branchno

and b.branchno = s.branchno

and b.branchno = (select branchno

from dh\_branch

where street = '16 Argyll Street');

**Table

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**Question #2** .

Find all Managers who work at a London branch … City = ‘London’

Hint: Subquery From DH\_Staff table DH\_Branch

select s.fname, s.lname, s.position, s.branchno, b.city

from dh\_staff s, dh\_branch b

where b.branchno = s.branchno

and s.position = 'Manager'

and b.branchno in (select branchno

from dh\_branch

where city = 'London');

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**Use Just Lee (JL\_) database for Question 3 , Question 4**

**Question #3**

Determine which customers placed orders for the least expensive book (in terms of regular retail price) carried by JustLee Books.

select c.firstname, c.lastname, oi.isbn, b.title, b.retail

from jl\_orders o, jl\_orderitems oi, jl\_books b, jl\_customers c

where b.isbn = oi.isbn

and c.customer# = o.customer#

and o.order# = oi.order#

and b.retail = (select min(retail)

from jl\_books);

Graphical user interface, text, application

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**Question#4 :**

Find out which other books were published by the same publisher of **BODYBUILD IN 10 MINUTES A DAY** book.

select b.isbn, b.title, ba.authorid

from jl\_books b, jl\_bookauthor ba, jl\_author a

where b.isbn = ba.isbn

and ba.authorid = a.authorid

and ba.authorid in (select ba.authorid

from jl\_books b, jl\_bookauthor ba

where b.isbn = ba.isbn

and title = 'BODYBUILD IN 10 MINUTES A DAY')

order by b.isbn;

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**Question #5: Use HR Database for this question**

Find out employees’ ID who has never been changed his/her job since the beginning. (Find out whose record never gone to JOB\_HISTORY table and stayed only in EMPLOYEE Table)

Hint: Use MINUS set operator

select employee\_id, first\_name, last\_name

from hr\_employees

where employee\_id in (select employee\_id

from hr\_employees

minus select distinct(employee\_id)

from hr\_job\_history);

Graphical user interface, table

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