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Princess Sumaya University for Technology King Hussein Faculty of Computing Sciences Computer Science Department

Database System Lab
CS 11354
Semester: Spring 2022/2023
Lab Assignment # 9

Lab Exercises:

Part I: DCL:

1. Create a user; the username is your first letter of your name followed by your student ID and the password is db123.

CREATE USER M20180358 IDENTIFIED BY db123;

2. Grant to login, create tables, select on customers, update the customer's name, create synonyms for the created user (use the previously created customers table)

Grant create session to M20180358;

Grant create table to M20180358

Grant create synonym to M20180358

Grant select on customers to M20180358;

Grant update(name) on customers to M20180358;

Grant create synonyms to M20180358;

3. Change the password of the new user to aabbcc.

ALERT USER M20180358 IDENTIFIED BY aabbcc;

4. Grant your user the ability to delete any customer and the ability to grant this privilege to any user.

Grant delete on customers to M20180358 with options;

Part II: Synonyms:

1. Connect to the user you created in part 1 Conn M20180358/aabbcc;

2. Select all the data from customers

SELECT * FROM SYSTEM.CUSTOMERS;

3. Create a synonym for table customers

CREATE SYNONYMS USERS FOR CUSTOMERS;

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4. Repeat step 2 (use the synonym only without the owner name)

SELECT * FROM USERS;

Part III: PL/SQL:

Create a PL/SQL program that applies the following (the answer for this part is only one big PL/SQL code):

1. Define two variables c_id with type number with initial value -1, c_name with type varchar2(255) with initial value 'No Name'.

DECLARE
c_id NUMBER(-1);
c_name VARCHAR2('No Name');
END;

CUSTOMER ID=100;

- 2. Print variable values using the following format:

 Customer Id is <c_id> and customer name is <c_name>

 dbms_output.Put_line('Customer Id is ' || c_id || ' and customer name is ' || c_name);
- 3. Write a select statement that retrieves the customer id and the customer's name inside the variable defined before for the customer id=100.

 SELECT CUSTOMER_ID, NAME INTO c_id, c_name FROM EMPLOYEE WHERE
- 4. Print variable values using the following format:

 Customer Id is <c_id> and customer name is <c_name>

 dbms output.Put line('Customer Id is '|| c id || 'and customer name is '|| c name);