**Term: 2024S FSDM**

**Course: Database Programming**

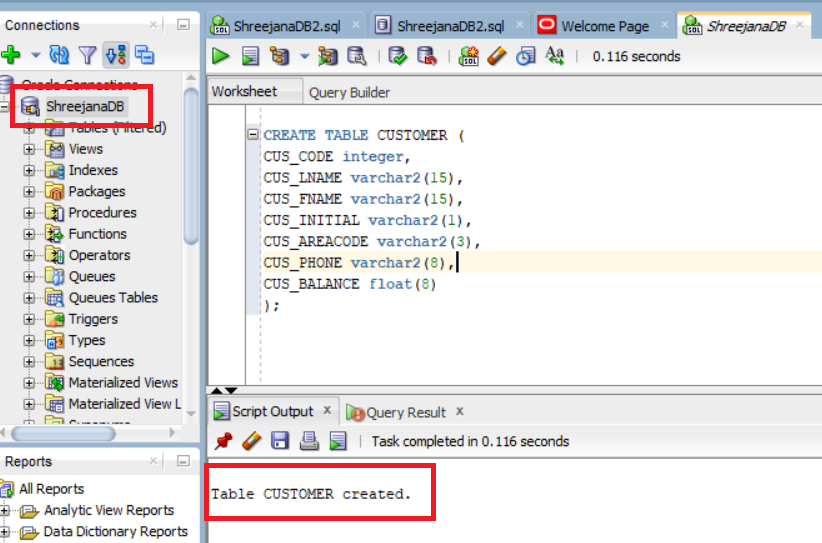
**Practical Exercise #2**

**Student Name: C0930321**

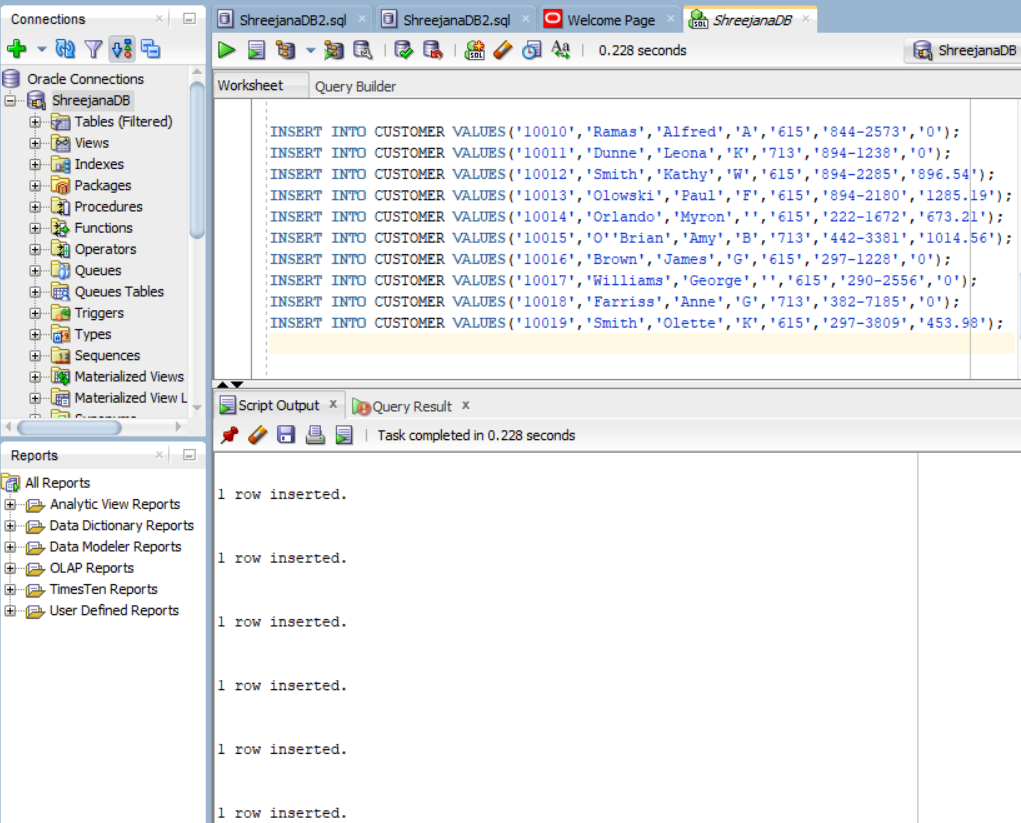
**Student Number: Shreejana Shrestha**

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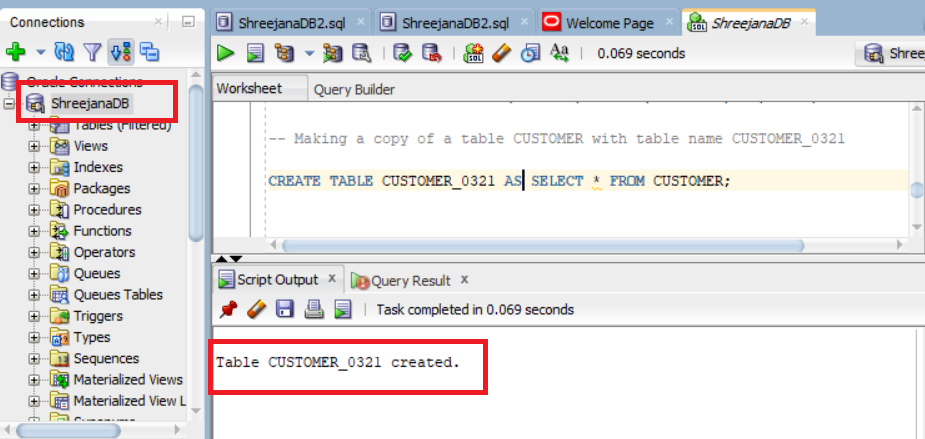
**1. Customer Table creation**

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**2. Table data insertion**

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**3. Making copy of CUSTOMER table**

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**A screenshot of a computer

Description automatically generated**

**4. Write a PL/SQL script to demonstrate the use of %TYPE, SELECT INTO using where clause, and display output.**

**Code block:**

SET SERVEROUTPUT ON; -- used to print the output in the console

DECLARE

-- variable declaration

v\_cus\_firstname customer\_0321.cus\_fname%TYPE;

v\_cus\_lastname customer\_0321.cus\_lname%TYPE;

v\_cus\_balance customer\_0321.cus\_balance%TYPE;

BEGIN

-- use of select, into and where clause

SELECT cus\_fname, cus\_lname, cus\_balance

INTO v\_cus\_firstname, v\_cus\_lastname, v\_cus\_balance

FROM customer\_0321

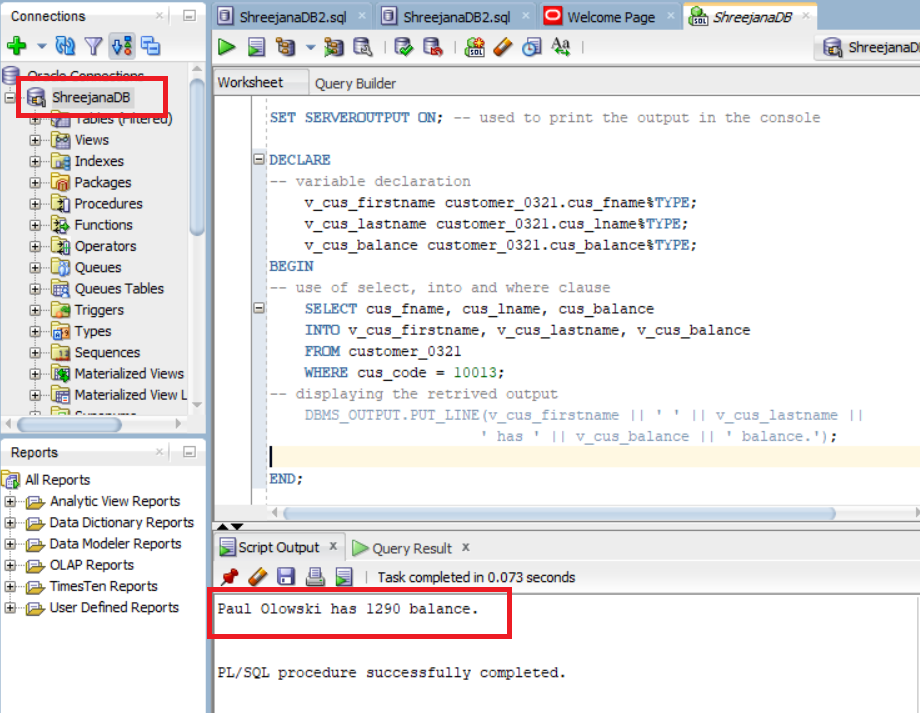
WHERE cus\_= 10013;

-- displaying the retrived output

DBMS\_OUTPUT.PUT\_LINE(v\_cus\_firstname || ' ' || v\_cus\_lastname ||

' has ' || v\_cus\_balance || ' balance.');

END;

****

**5. Write a PL/SQL script to demonstrate the error “ no data found”.**

**Code block:**

DECLARE

-- variable declaration

v\_cus\_firstname customer\_0321.cus\_fname%TYPE;

v\_cus\_lastname customer\_0321.cus\_lname%TYPE;

v\_cus\_balance customer\_0321.cus\_balance%TYPE;

BEGIN

-- use of select, into and where clause

SELECT cus\_fname, cus\_lname, cus\_balance

INTO v\_cus\_firstname, v\_cus\_lastname, v\_cus\_balance

FROM customer\_0321

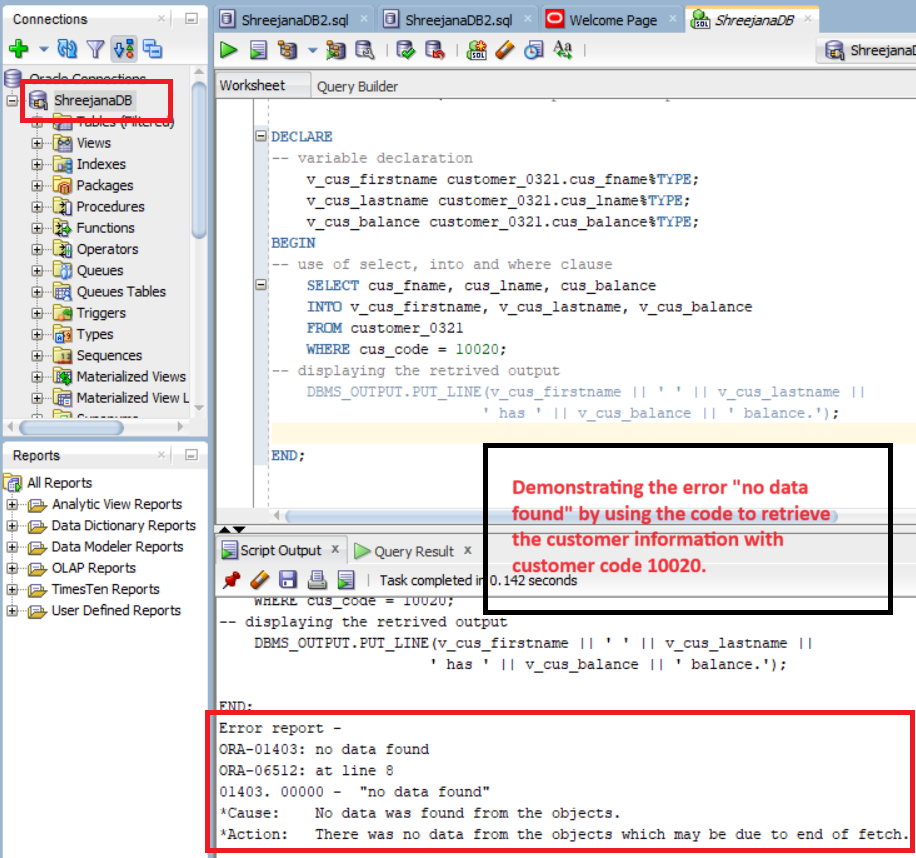
WHERE cus\_= 10020;

-- displaying the retrived output

DBMS\_OUTPUT.PUT\_LINE(v\_cus\_firstname || ' ' || v\_cus\_lastname ||

' has ' || v\_cus\_balance || ' balance.');

END;

****

**6. Write a PL/SQL script to demonstrate the error “ multiple rows returned”.**

**Code block:**

DECLARE

-- variable declaration

v\_cus\_balance customer\_0321.cus\_balance%TYPE;

BEGIN

SELECT cus\_balance

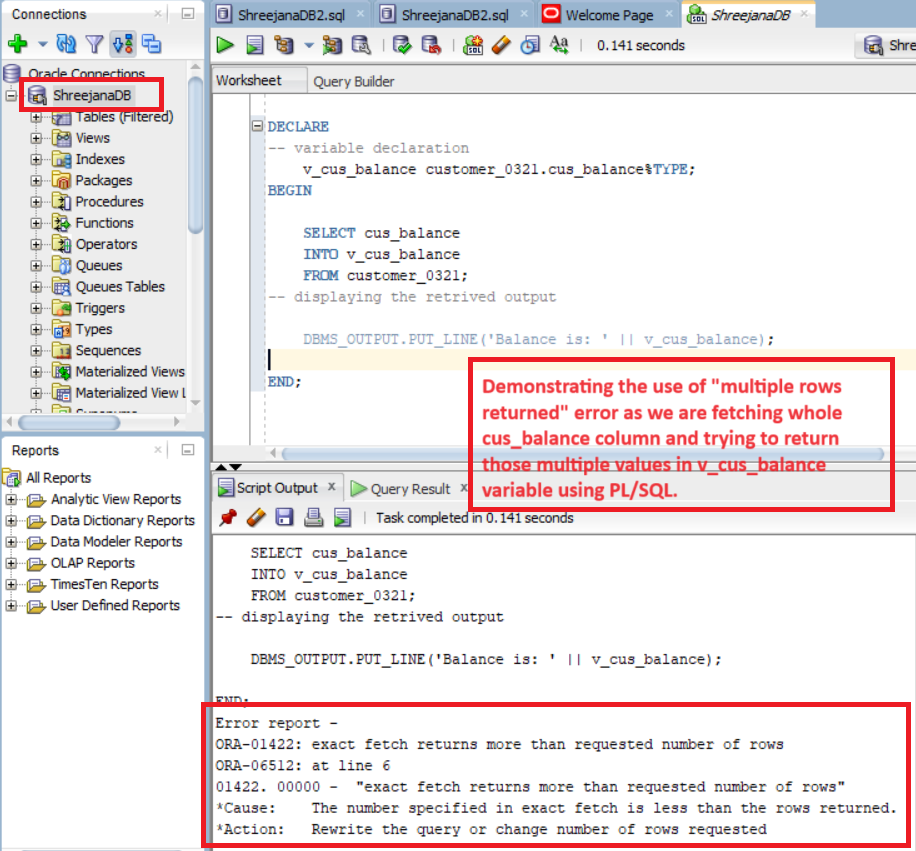
INTO v\_cus\_balance

FROM customer\_0321;

-- displaying the retrived output

DBMS\_OUTPUT.PUT\_LINE('Balance is: ' || v\_cus\_balance);

END;

****

**7. Write a PL/SQL script to demonstrate the use of group function.**

**Code block:**

DECLARE

-- variable declaration

v\_cus\_balance NUMBER(10, 2);

BEGIN

SELECT SUM(cus\_balance) -- group function

INTO v\_cus\_balance

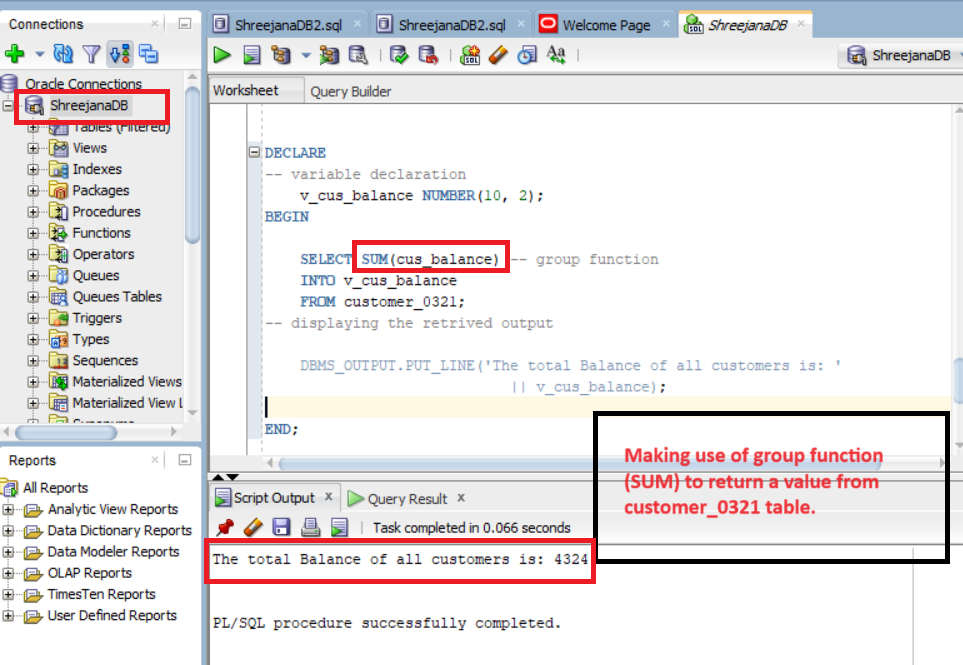
FROM customer\_0321;

-- displaying the retrived output

DBMS\_OUTPUT.PUT\_LINE('The total Balance of all customers is: '

|| v\_cus\_balance);

END;

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