Database Design - 2023S

Student ID:

Student Name:

Practical Activity 9 - SQL JOIN Operations

Perform the following operations using ORACLE and provide relevant screen shots in each case

Use appropriate syntax and datatypes

 Create the following table(s) and enter given data values for each table using a SQL Scripts

a. Customers_697(697 is last 3 digits of your student Number)

CUSTOMERID	FIRSTNAME	LASTNAME
1	Sara	Davis
2	Rumi	Shah
3	Paul	Johnson
4	Samuel	Martinez
5	Sagara	Samarawickrama

** Customer ID 5 Enter your First Name and Last_Name

b. Orders_697

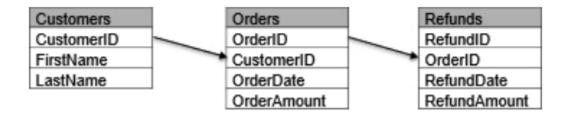
ORDERID	CUSTOMERID	ORDERDATE	ORDERAMOUNT
1	1	01-SEP-16	10
2	2	02-SEP-16	12.5
3	2	03-SEP-16	18
4	3	15-SEP-16	20
5	4	21-NOV-20	20

Hint: TO_DATE('2020-11-21', 'YYYY/MM/DD') can be used to convert / insert date type

Note: OrderDate is a Date Type

c. Refunds_697

REFUNDID	ORDERID	REFUNDDATE	REFUNDAMOUNT
1	1	02-SEP-16	5
2	3	18-SEP-16	18



Now Perform the following JOIN Operations

1. Find the Details of the Customers and their orders (only the Customers with orders)

CUSTOMERID	FIRSTNAME	LASTNAME	ORDERID	CUSTOMERID	ORDERDATE	ORDERAMOUNT
1	Sara	Davis	1	1	01-SEP-16	10
2	Rumi	Shah	2	2	02-SEP-16	12.5
2	Rumi	Shah	3	2	03-SEP-16	18
3	Paul	Johnson	4	3	15-SEP-16	20
4	Samuel	Martinez	5	4	21-NOV-20	20

Why Customer 2 appear twice ?

Why Customer 5 not appear in the output?

2. Find the details of the customers with orders and refunds (join all 3 tables)

FIRSTNAME	LASTNAME	ORDERDATE	ORDERAMOUNT	REFUNDDATE	REFUNDAMOUNT
Sara	Davis	01-SEP-16	10	02-SEP-16	5
Rumi	Shah	03-SEP-16	18	18-SEP-16	18

Explain the output

Why only Sara and Rumi apper in the output

3. Find the details of the Customers orders and refunds irrespective of whether they place orders or having refunds

FIRSTNAME	LASTNAME	ORDERDATE	ORDERAMOUNT	REFUNDDATE	REFUNDAMOUNT
Sara	Davis	01-SEP-16	10	02-SEP-16	5
Paul	Johnson	15-SEP-16	20		-
Samuel	Martinez	21-NOV-20	20	-	-
Sagara	Samarawickrama	-	-	-	-
Rumi	Shah	02-SEP-16	12.5	-	-
Rumi	Shah	03-SEP-16	18	18-SEP-16	18

Explain the output Why we see NULL values in certain columns