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Database Design Project

Oracle Baseball League Store Database

Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

Section 6 Lesson 9 Exercise 2: Joining Tables Using JOIN

Write SELECT Statements Using Data From Multiple Tables Using Equijoins and Non-Equijoins (S6L9 Objective 1)

Part 1: Use a Self-Join to Join a Table to Itself (S6L9 Objective 2)

1. Write a query that will display who the supervisor is for each of the sales representatives. The information should be displayed in two columns, the first column will be the first name and last name of the sales representative and the second will be the first name and last name of the supervisor. The column aliases should be Rep and Supervisor.

```
Code:

SELECT

rep.first_name || ' ' || rep.last_name AS "Rep",

sup.first_name || ' ' || sup.last_name AS "Supervisor"

FROM

sales_representatives rep

JOIN

sales_representatives sup ON rep.supervisor_id = sup.id;
```



Part 2: Use OUTER joins (S6L9 Objective 3)

1. Write a query that will display all of the team and customer information even if there is no match with the table on the left (team).

```
Code:
```

```
SELECT
t.id AS "Team ID",
t.name AS "Team Name",
t.number_of_players AS "Number of Players",
t.discount AS "Discount",
c.ctr number AS "Customer Number",
c.first name AS "Customer First Name",
c.last name AS "Customer Last Name",
c.phone_number AS "Customer Phone Number",
c.email AS "Customer Email"
FROM
teams t
LEFT OUTER JOIN
```

customers c ON t.id = c.tem_id;

Output:

```
SELECT
         t.id AS "Team ID",
          t.name AS "Team Name"
         t.number_of_players AS "Number of Players",
         t.discount AS "Discount",
         c.ctr_number AS "Customer Number",
         c.first name AS "Customer First Name",
         c.last name AS "Customer Last Name",
         c.phone_number AS "Customer Phone Number",
          c.email AS "Customer Email"
     FROM
         teams t
     LEFT OUTER JOIN
          customers c ON t.id = c.tem_id;
Script Output X
📌 🥢 🔡 💂 📕 | Task completed in 2.735 seconds
                         Number of Players Discount Custom Customer First Name Customer Last Name
                                                                                                                 Customer Ph Customer Email
t001 Rockets
                                        25
                                                   10 c000001 Robert
                                                                                  Thornberry
                                                                                                                 01234567898 bob.thornberrv@heatmail.com
                                                   20 c00101 John
                                                                                                                 03216547808 unknown@here.com
t002 Celtics
                                        42
                                                                                  Doe
                                                                                                                 01442736589 margal87@delphiview.com
t003 Rovers
                                                      c01986 Maria
                                                                                  Galant
t004 Jets
```

Part 3: Generating a Cartesian Product (S6L9 Objective 4)

1. Create a Cartesian product between the customer and sales representative tables.

Code:

SELECT

c.ctr_number AS "Customer Number",

c.first_name AS "Customer First Name",

c.last_name AS "Customer Last Name",

c.phone_number AS "Customer Phone Number",

c.email AS "Customer Email",

sr.id AS "Sales Representative ID",

sr.first_name AS "Sales Representative First Name",

sr.last_name AS "Sales Representative Last Name",

sr.email AS "Sales Representative Email"

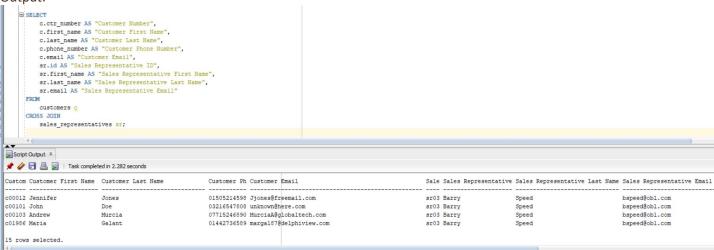
FROM

customers c

CROSS JOIN

sales_representatives sr;

Output:



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