

SECD2523-DATABASE

Lab 4: DML 3 -Part 1

LECTURER: Dr Noor Hidayah binti Zakaria

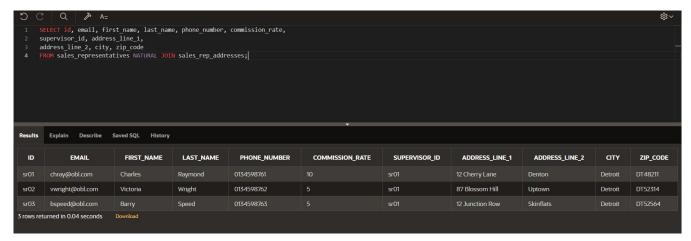
NAME: Yaseen Mohamed Barakat

MATRIC: A22EC4016

Section: 08

Natural Joins.

Display all of the information about sales representatives and their addresses using a natural join.



2. Adapt the query from the previous question to only show the id, first name, last name, address line 1, address line 2, city, email and phone_number for the sales representatives.



Joins with the USING Clause

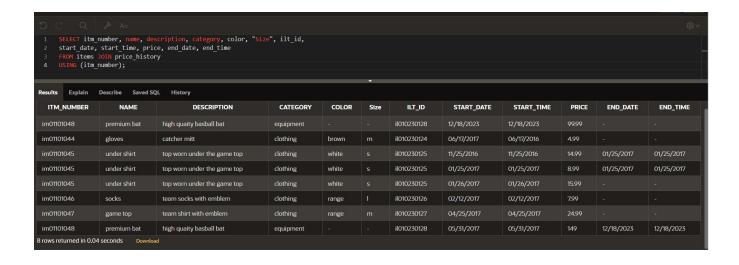
Adapt the previous query answer to use the USING clause instead of a natural join.

Part 1: Creating

1.



2. Display all of the information about items and their price history by joining the items and price history tables.



Joins with the ON Clause

Use an ON clause to join the customer and sales representative table so that you display the customer number, customer fist name, customer last name, customer phone number, customer email, sales representative id, sales representative first name, sales representative last name and sales representative email. You will need to use a table alias in your answer as both tables have columns with the same name.

Part 2: Creating

1. SELECT c.ctr_number AS "Customer Number",
2 c.first_name AS "Customer First Name",
3 c.last_name AS "Customer Prist Name",
4 c.phone_number AS "Customer Prist Name",
5 c.email AS "Customer Email",
6 s.id AS "Sales Representative ID",
7 s.first_name AS "Sales Representative First Name",
8 s.last_name AS "Sales Representative Eirst Name",
9 s.email AS "Sales Representative Eirst Name",
10 R sold Customers Cast Name As "Sales Representative Eirst Name",
9 s.email AS "Sales Representative Eirst Name",
10 R sold Customers Cast Name As "Sales Representative Eirst Name",
9 s.email AS "Sales Representative Eirst Name",
10 R sold Customers Cast Name As "Sales Representative Eirst Name",
11 Results Explain Describe Saved SQL History

Customer Customer First Name Name Name Number Customer Email Representative ID Sales Representative Eirst Name Name Email

co0001 Robert Thornberry 0125456/898 bobthornberry@heatmail.com sr01 Charles Raymond chray@obl.com c00101 John Doe 05216547808 unknown@here.com sr01 Charles Raymond chray@obl.com c00106 Maria Galant 01442736589 margal87@delphiview.com sr05 Barry Speed bspeed@obl.com 3 frows returned in 0.02 seconds Deveload

Part 4- Creating Three-Way Joins with the ON Clause

1. Using the answer to Task 3 add a join that will allow the team name that the customer represents to be included in the results.

```
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 Email",

s.id AS "Sales Representative ID",

s.ifirst_name AS "Sales Representative First Name",

s.last_name AS "Sales Representative Email",

t.name AS "Sales Representative Email",

t.name AS "Team Name"

FROM customers c JOIN sales_representatives s

ON c.rem_id=.id

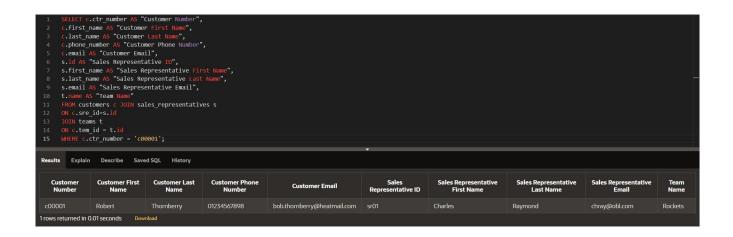
JOIN teams t

ON c.tem_id = t.id;
```



Part 5: Applying Additional Conditions to a Join

1. Using the answer to Task 4 add an additional condition to only show the results for the customer that has the number - c00001.



Part 6: Retrieving Records with Nonequijoins

1. Write a query that will display name and cost of the item with the number im01101045 on the 12th of December 2016. The output of the query should look like this:

The cost of the under shirt on this day was 14.99

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Lab 4: DML 3 - Part 2

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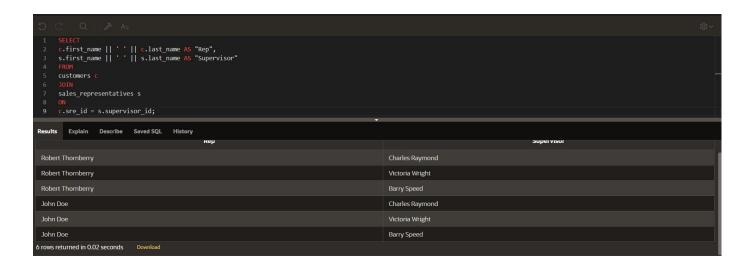
Section: 08

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)

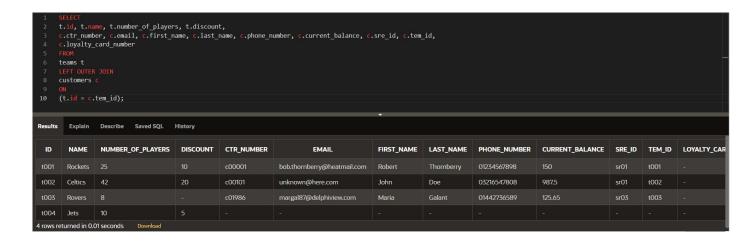
Part 1: Use a Self-Join to Join a Table to Itself (S6L9 Objective 2)

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.



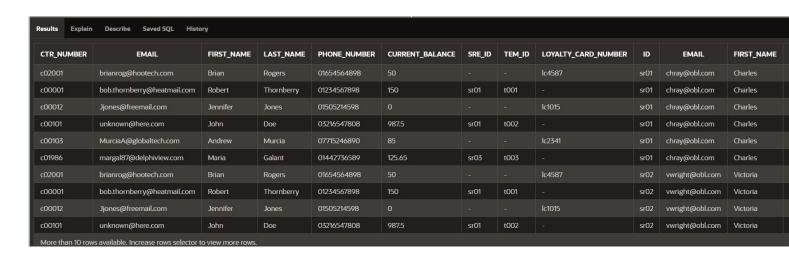
Part 2: Use OUTER joins (S6L9 Objective 3)

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).



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

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



```
Language SQL v ® Rows 10 v ® Gear Command Find Tables

Save Run

Setter

c.ctr_number, c.email, c.first_name, c.last_name, c.phone_number, c.current_balance, c.sre_id,
c.tem_id, c.loyalty_card_number,
s.ctm_id, c.loyalty_card_number,
s.last_name, s.phone_number, s.commission_rate, s.supervisor_id

FROM

customers c, sales_representatives s;
```

