

SECD2523 SECTION 10

LECTURER: ROZILAWATI BINTI DOLLAH @ MD ZAIN

PROJECT TITLE:

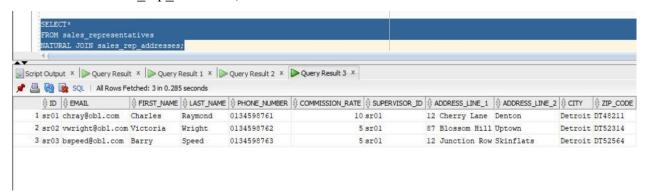
SQL LAB4 (DML3) PART1

NAME	MATRIC NUMBER
NURFAZRINA SYAKILA BINTI BAHARUDDIN	A21SC0276

Part 1: Creating Natural Joins.

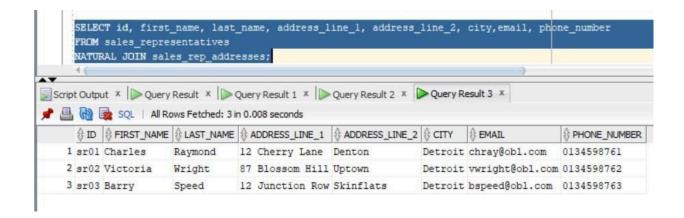
1. Display all of the information about sales representatives and their addresses using a natural join.

SELECT*
FROM sales_representatives
NATURAL JOIN
sales rep addresses;



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.

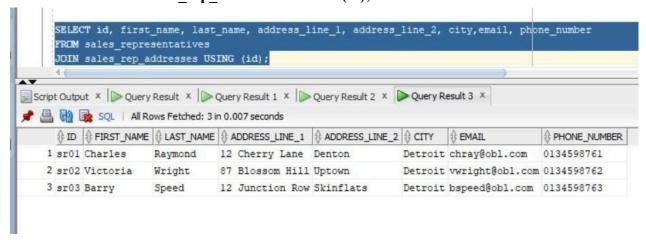
SELECT id, first_name, last_name, address_line_1, address_line_2, city,email, phone_number
FROM sales_representatives
NATURAL JOIN
sales_rep_addresses;



Part 2: Creating Joins with the USING Clause

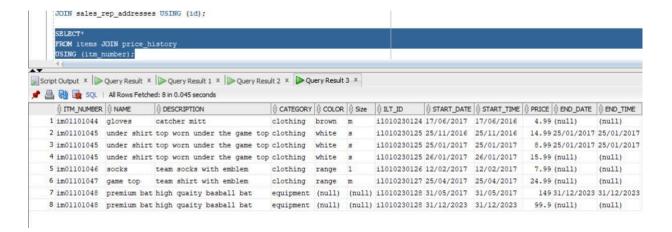
1. Adapt the previous query answer to use the USING clause instead of a natural join.

SELECT id, first_name, last_name, address_line_1, address_line_2, city,email, phone_number
FROM sales_representatives
JOIN sales rep_addresses USING (id);



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

SELECT*
FROM items JOIN
price_history USING
(itm_number);



Part 3: Creating Joins with the ON Clause

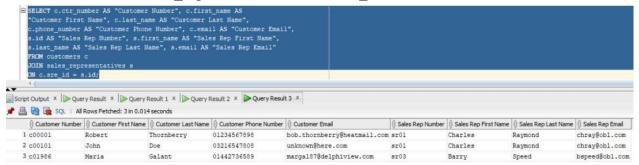
1. Use an ON clause to join the customer and sales representative table so that you display the customer number, customer fist name, customer last name, customer phone number, customer email, sales representative id, sales representative first name, sales representative last name and sales representative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

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", s.id AS "Sales Rep Number", s.first_name AS "Sales Rep First Name", s.last_name AS "Sales Rep Last Name", s.email AS "Sales Rep Email"

FROM customers c

JOIN sales_representatives s ON c.sre_id = s.id;



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

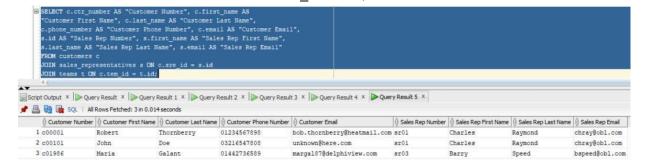
1. Using the answer to Task 3 add a join that will allow the team name that the customer represents to be included in the results.

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 Phone Number", c.email AS "Customer Email", s.id AS "Sales Rep Number", s.first_name AS "Sales Rep First Name", s.last_name AS "Sales Rep Last Name", s.email AS "Sales Rep Email"

FROM customers c

JOIN sales_representatives s ON c.sre_id = s.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.

SELECT c.ctr number AS "Customer Number",

c.first name AS "Customer First Name", c.last name AS

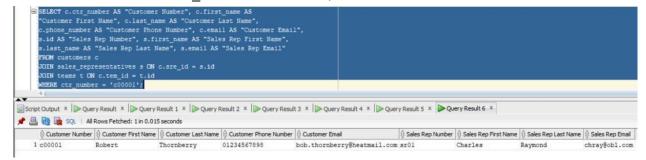
"Customer Last Name",

c.phone_number AS "Customer Phone Number", c.email AS "Customer Email", s.id AS "Sales Rep Number", s.first_name AS "Sales Rep First Name", s.last_name AS "Sales Rep Last Name", s.email AS "Sales Rep Email"

FROM customers c

JOIN sales_representatives s ON c.sre_id = s.id JOIN teams t ON c.tem id = t.id

WHERE ctr 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

SELECT 'The cost of the ' i.name ' on this day was ' || y.price AS "Output"

FROM items i

JOIN price history y ON i.itm number = y.itm number

WHERE i.itm number = 'im01101045'

AND TO_DATE('12-DEC-2016', 'DD-MON-YYYY') BETWEEN y.start_date AND y.end date;

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SELECT 'The cost of the ' || i.name || ' on this day was ' || y.price AS "Output"

FROM items i

JOIN price_history y ON i.itm_number = y.itm_number

WHERE i.itm_number = 'im01101045'

AND TO DATE('12-DEC-2016', 'DD-MON-YYYY') BETWEEN y.start_date AND y.end_date;

Script Output × | Query Result × | Query Result 1 × | Query Result 2 × | Query Result 3 × | Query Result 3 × | Query Result 4 | Query Result 5 × | Query Result 6 × | Query Result 7 × | Query Result 8 × | Query Result 9 | Query Result
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