

DATABASE

LAB 4

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Section Lesson 9 Exercise 1: Joining Tables Using JION.

Part 1: Creating Natural Joins.

SELECT * FROM SALES_REPRESENTATIVES NATURAL JOIN SALES_REP_ADDRESSES;

SELECT id, first_name, last-name, email, phone-number, address-line-1, address-line-2, city

FROM SALES_REPRESENTATIVES. NATURAL JOIN SALES_REF_ADDRESSES;

Part 2: Creating Joins with the USING Clause

(1) SELECT id, first-name, last-name, email, phone-number, address_line-1, address_line-2, city

FROM SALES_REPRESENTATIVES NATURAL JOIN SALES_REF_ADDRESSES USING LIN)

<2> SELECT & FROM ITEMS JOIN PRICE_HISTORY USING (itm-number);

Part3: Creating Joins with the ON Clause

SELECT c.ctr-number AS "Customer Number", c.first-name AS "Customer First Name",

Clast_name AS "Customer Last Name", C.phone_number AS "Customer Phone Number",

Cemail As "Customer Email", C.SIe-id As "Sales-Rep ID"

5. first-name As "Sales-Rep First Name", 5. last-name As "Sales-Rep Last Name",

S. email AS "Sales-Rep Email"

FROM CUSTOMERS C JOIN SALES-REPRESENTATIVES S ON (C. STE-id = S. id

Part 4-Creating Three-way Joins with the ON clause

(1) 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.emoil AS "Customer Email", asre-id AS "Sales-Rep LD".

s.first-name As "Sales-Rep First Name", S.last-name As "Sales-Rep Last Name".

S. emoil AS "Sales_Rep Email", t. name AS "Team Norme"

FROM CUSTOMERS C JOIN SALES-REPRESENTATIVES 3 ON (C.Sre-id-Sid);

JOIN TEAMS t ON (c.tem-id=t.id);

Part 5: Applying Additional Conditions to a Join

SELECT C.ctr-number AS "Customer Number", cfirst_name AS "Customer First Name",

c.last-name AS "Customer Last Name", C.Phone-number AS "Customer Phone Number",

C.email AS "Customer Email", C.sre-id AS "Sales-Rep ID",

S-first_name AS "Sales-Rep First Name". S.last_name AS "Sales-Rep Last Name".

S. email AS "Sales-Rep Email", t.name AS "Team Name",

FROM CUSTOMERS C JOIN SALES-REPRESENTATIVES & ON (C.SIRE. id = s.id);

JOIN TEAMS toN (c.tem.id=t.id) WHERE cctr.number: ('coood');

Part 6: Retrieving Records with Nonequijoins

SELECT 'The cost of the 'lliname 11' on this day was '11 p. Price As "Output"

FROM ITEMS: JOIN PRICE-HISTORY P ON (i.itm-number = P.itm-number)

WHERE I itm-number = ('imolio1043') AND To-DATE ('12-Dec-2016', 'DD-Mon-YYYY')

BETWEEN p. start-date AND p. end-date;

Section 6 Lesson 9 Exercise 2: Joining Tables Using JOIN

Part 1: Use a Self-Join to Join a Table to Itself (SbL9 Objective2)

SELECT rep-first_name 11' 11 rep.last_name As "Rep", sup-first_name 11' 11 sup.last-name As

"Supervisor" FROM SALES_REPRESENTATIVES rep JOIN SALES_REPESENTATIVES SUP

ON (rep. supervisor_id = sup.id);

Part 2: Use OUTER joins

<I> SELECT * FROM TEAMS t LEFT OUTER JOLN CUSTOMER c DN (c.tem_id = t.id);

Port 3: Generating a Cartesian Product

SELECT * FROM CUSTOMERS. SALES-REPRESENTATIVES;