

DML3 Part 1 - NUHA MOHAMED A22EC0238

Part 1: Creating Natural Joins

1. SELECT *

FROM sales-representatives

NATURAL JOIN sales-rep-addresses;

2. SELECT sales-id, sales.first-name, sales.last-name,
a.address-line-1, a.address-line-2, a-city, a.email,
sales.phone-number

FROM sales-representatives sales

NATURAL JOIN sales-rep-addresses a;

Part 2: Creating joins with the USING clause

1. SELECT sales-id, sales.first-name, sales.last-name,
addr.address-line-1, addr.address-line-2, addr.city,
sales-email, sales.phone-number

FROM sales-representatives sales

JOIN sales-rep-addresses addr USING (id);

2. SELECT *

FROM items

JOIN price-history ON items.item-number = price-history.item-number;

Part 3 = ON clause

1. SELECT c.ctr-number, c.first-name, c.last-name, AS customer-first-name
c.last-name AS customer-last-name, c.phone-number AS
customer-phone, c.email AS customer-email, s.id AS sales-rep-id,
s.first-name AS sales-rep-first-name, s.last-name AS
sales-rep-last-name, s.email AS ~~s_email~~ sales-rep-email

FROM customers c

JOIN sales-representatives s ON c.sre-id = s.id;

Part 4: Three way JOINS ON clause

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1. SELECT c.ctr-number, c.first-name AS customer-first-name,
        c.last-name AS customer-last-name, c.phone-number AS
        customer-phone, c.email AS customer-email,
        s.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 s ON c.sre-id = s.id
JOIN teams t ON c.tem-id = t.id

```

Part 5: Additional conditions to a JOIN

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1. SELECT c.ctr-number, c.first-name AS customer-first-name,
        c.last-name AS customer-last-name, c.phone-number
        AS customer-phone, c.email AS customer-email,
        s.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 s ON c.sre-id = s.id
JOIN teams t ON c.tem-id = t.id
WHERE c.ctr-number = 'C00001';

```

Part 6: Retrieve Records with Nonequijoins.

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1. SELECT 'The cost of the' || i.name || 'on this day was' || ph.price
FROM items i
JOIN price-history ph ON i.item-number = ph.item-number
WHERE i.item-number = 'im01101045'
AND ph.start_date = '12-DEC-2016';

```


SQL4-DML3-P2

1. SELECT

r.first-name || ' ' || r.last-name AS rep

s.first-name || ' ' || s.last-name AS supervisor

FROM

Sales-representatives r

LEFT JOIN

Sales-representative s ON r.supervisor-id = s.id;

2. SELECT *

FROM teams

LEFT JOIN customers ON teams.id = customers.team-id;

3. SELECT *

FROM customers

CROSS JOIN Sales-representatives;