Name   : Lio Kock Hock

Matric No. : A22EC0185

Section   : 06

Due date   : 27 / 12 / 2023

Title   : SQL 3 – DML3

PART 1

Part 1

1. SELECT * FROM sales_representatives
   NATURAL JOIN sales_rep_addresses;

2. SELECT id, first_name, last_name, address_line_1,
   address_line_2, City, email, phone-number
   FROM sales_reprensentatives
   NATURAL JOIN sales_rep_addresses;

Part 2

1. SELECT id, first_name, last_name, address_line_1,
   address_line_2, City, email, phone-number
   FROM sales_reprensentatives
   JOIN sales_rep_addresses
   Using (id);

2. SELECT * FROM items
   NATURAL JOIN price_history;

Part 3

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",
        id AS ID,
        sr.first_name AS "Sales Rep First Name",
        sr.last_name AS "Sales Rep Last Name",
        sr.email AS "Sale Rep Email"
FROM customers c
JOIN sales_represensatives sr
ON c.sre_id = sr.id
```

Part 4

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",
        id AS ID,
        sr.first_name AS "Sales Rep First Name",
        sr.last_name AS "Sales Rep Last Name",
        sr.email AS "Sale Rep Email",
        t.name AS "Team Name"
FROM customers c
JOIN sales_represensatives sr
ON c.sre_id = sr.id
JOIN teams t
ON c.tem_id = t.id;
```

Part 5

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 ",

      id AS ID,

      sr. first_name AS " Sales Rep First Name",

      sr. last_name AS " Sales Rep Last Name",

      sr. email AS " Sale Rep Email",

      t. name AS " Team Name "

  FROM Customers c

JOIN sales_reprensentatives sr

ON c. sre_id = sr. id

JOIN teams t

ON C. tem_id = t.id ;

WHERE c.ctr_number = 'C00001';

Part 6

1. SELECT

      'The cost of the ' || name || ' on this day was ' || price AS result

  FROM

      items

NATURAL JOIN

      price_history

WHERE

      itm_number = 'im01101045'

      AND start_date <= DATE '2016-12-12'

      AND (end_date IS NULL OR end_date >= DATE '2016-12-12');

PART 2

Part 1

1. SELECT
        rep.first_name || ` ' || rep.last_name AS Representative,
        sup.first_name || ` ' || sup.last_name AS Supervisor
   FROM sales_reprentatives rep
   LEFT JOIN sales_representatives sup
   ON   rep.supervisor_id = sup.id;

Part 2

1. SELECT *
   FROM teams
   FULL OUTER JOIN Customers
   ON id = tem_id;

Part 3

1. SELECT * FROM Customers
   CROSS JOIN sales_representatives;