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-- DBS211 -     Lab 04
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-- Date:        8th October, 2020
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SET AUTOCOMMIT ON;

/*Question 1a
Create a query that shows employee number, first name, last name, city, phone
number
and postal code for all employees in France.
a. Answer this question using an ANSI-89 Join */
SELECT employeenumber, firstname, lastname, city, phone, postalcode
FROM employees E, offices O
WHERE E.officecode = O.officecode AND O.country = 'France';

/*Question 1b
Answer this question using an ANSI-92 Join */
SELECT E.employeenumber, E.firstname, E.lastname, O.city, O.phone, O.postalcode
FROM employees E INNER JOIN offices O ON E.officecode = O.officecode
WHERE O.country = 'France';

/*Question 2
Create a query that displays all payments made by customers from Canada.
a. Sort the output by Customer Number.
b. Only display the Customer Number, Customer Name, Payment Date and
Amount.
c. Make sure the date is displayed clearly to know what date it is. (i.e. what
date is
02-04-19??? Feb 4, 2019, April 2, 2019, April 19, 2002, .) */
SELECT C.customernumber, C.customername, to_char(P.paymentdate, 'Month DD,
YYYY') AS paymentdate, P.amount
FROM customers C INNER JOIN payments P ON C.customernumber = P.customernumber
WHERE P.amount > 0 AND C.country = 'Canada' ORDER BY customernumber;

/*Question 3
Create a query that shows all USA customers who have not made a payment. Display
only the customer number and customer name sorted by customer number. */
SELECT C.customernumber, C.customername
FROM customers C LEFT JOIN payments P ON C.customernumber = P.customernumber
WHERE P.amount is null AND C.country = 'USA' ORDER BY C.customernumber;

/*Question 4a
Create a view (vwCustomerOrder) to list all orders with the following data for
all
customers:
Customer Number, Order number, order date, product name, quantity ordered, and
price for each product in every order. */
CREATE VIEW vwCustomerOrder AS
    SELECT C.customernumber, O.ordernumber, O.orderdate, P.productname,
OD.quantityordered, OD.priceeach
    FROM customers C LEFT JOIN orders O ON C.customernumber = O.customernumber
    JOIN orderdetails OD ON OD.ordernumber = O.ordernumber
    JOIN products P ON P.productcode = OD.productcode;

/*Question 4b
Write a statement to view the results of the view just created. */
SELECT * FROM vwCustomerOrder;

/*Question 5
Using the vwCustomerOrder view, display the order information for customer
number
124. Sort the output based on order number and then order line number. (Yes, I
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know
orderLineNumber is not in the view)
*/
CREATE OR REPLACE VIEW vwCustomerOrder AS
SELECT c.customernumber, o.ordernumber, o.orderdate, p.productname,
p.productcode, od.quantityordered, od.priceeach
FROM customers c INNER JOIN orders o ON c.customernumber = o.customernumber
INNER JOIN orderdetails od ON o.ordernumber = od.ordernumber
INNER JOIN products p ON od.productcode = p.productcode;

SELECT vco.*, od.orderlinenumber
FROM vwCustomerOrder vco INNER JOIN orderdetails od
ON vco.ordernumber = od.ordernumber AND vco.productcode = od.productcode
WHERE vco.customernumber = 124
ORDER BY vco.ordernumber, od.orderlinenumber;

/* Question 6
Create a query that displays the customer number, first name, last name, phone,
and
credit limits for all customers who do not have any orders. */
SELECT C.customernumber, C.contactfirstname, C.contactlastname, C.phone,
C.creditlimit
FROM customers C FULL OUTER JOIN orders O ON C.customernumber = O.customernumber
WHERE O.ordernumber IS NULL;

/* Question 7
Create a view (vwEmployeeManager) to display all information of all employees
and
the name and the last name of their managers if there is any manager that the
employee reports to. Include all employees, including those who do not report to
anyone. */
CREATE VIEW vwEmployeeManager AS
     SELECT emp1.*, emp2.firstname AS managerfirstname, emp2.lastname AS
managerlastname
     FROM employees emp1 LEFT OUTER JOIN employees emp2 ON emp1.reportsto =
emp2.employeenumber;


/* Question 8
Modify the employee_manager view so the view returns only employee information
for
employees who have a manager. Do not DROP and recreate the view  modify it.
(Google is your friend) */
CREATE OR REPLACE VIEW vwEmployeeManager AS
    SELECT emp1.*, emp2.firstname AS managerfirstname, emp2.lastname AS
managerlastname
    FROM employees emp1 LEFT OUTER JOIN employees emp2 ON emp1.reportsto =
emp2.employeenumber
    WHERE emp1.reportsto is not null;

/* Question 9
Drop both customer_order and employee_manager views */
DROP VIEW vwCustomerOrder;
DROP VIEW vwEmployeeManager;
```