

Database Management Systems (DBMS-1000)

Assignment #4 – Joins

Run the script 'DBMS Assignment #04 Script (Joins).sql' (provided in the assignment folder). This will create the tables used for this assignment. Write the necessary SQL commands to perform the required actions. Run the queries to obtain results from the database. (Make sure all columns returned have proper headings.)

Use a WHERE clause for your table joins unless otherwise specified.

Note: The maximum number of rows returned by any query below is 38. If you write a query that returns more than 38 rows, your query is incorrect.

Marks

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| 6 | 1) An order history for customer 2118 has been requested. List the Order Number, Date, Manufacturer, Product, Description, and Order Amount for each order place by this customer. Use a WHERE clause to define the table join. Orders should be listed by OrderNum. |
| 4 | 2) Change your solution from question 1 to use a NATURAL JOIN. |
| 8 | 3) The inventory department has concerns on some high-priced product items kept in stock. These items were brought in specifically for individual customers. The concern is that the products don't seem to be selling as fast as they used to. The department is considering removing the products from inventory and ordering them in when ordered by a customer. List the Mfr, the Product, Custnum, Company and Price of all products brought by customers where CustNum is one of (2107, 2110, 2111, 2124) and where the price of the item is from \$5.00 to \$25.00. Order the results by ascending Company and then by Price. Use the JOIN keyword in your solution. |
| 5 | 4) Normally, orders for a customer are placed by their salesrep. Sometimes a customer will place an order when their salesrep is away (sick, on vacation, etc). Write a query to list all orders where this has occurred. List the salesrep number and name (the salesrep to list is the one who was away when this order was placed) as well as the orderNumber and orderdate. |
| 4 | 5) Management has noticed that the age of the managers seems to be less than the age of the salesreps that report to them. List all salesreps names and their managers' names where the manager is younger than the salesrep. |
| 7 | 6) Due to factory recalls, information is required on a series of products provided by our suppliers. List all orders (OrderNum) and the product that was ordered (manufacturer and product) that contain the following products: ('41003' Manufactured by 'BIC', 'L12' Manufactured by 'FEA' or 'XK48' Manufactured by 'QSA'). Also show the customer number and company name placing the order, the name of the CustRep assigned to the company and the Office id where the CustRep works. Use the JOIN keyword in your solution. |

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- 7) In order to boost sales, the marketing department wants to target companies that have made orders below \$10.00. List all products (ProductId, Description), customers (CustNum, Company) who have bought that product, and orders (OrderNum, OrderDate) where the order < \$10.00 and the order date was between June 1, 1989 and May 31, 1990. Sort the rows by the OrderDate.
- 4
- 8) The marketing department needs a report on customers. They are planning a rewards system for customers that have made an order and plan an advertising campaign targeting those customers that have not placed an order. Create a listing of all customer numbers and names, the order number and the order amount each customer has made. List customers even if they have not placed an order. Order the results by customer number within amount.
- 9
- 9) The inventory department wants to review low priced items. List the Mfr, and Product of all items worth \$35 or less. It is known that low priced items are more popular with customers in the Eastern region. Exclude any order placed by a Sales Rep who works in the Eastern region.

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The following standards are to be used when coding:

- A comment that consists of your name & student number, course & section, date, and assignment number must be placed as the first 4 lines (Comments are indicated by placing dashes '--' in the first two columns of the line)
- Place a comment before every question indicating the question number. E.g.
`--Question 1`
- Keywords are in Uppercase
- Names are coded in camel case (First letter capitalized)
- Each clause is placed on a line by itself

Submission Instructions

- The file must be an SQL script (which ends with the suffix '.sql'), which is simply a text file (created in Notepad or an equivalent editor). No other type of file is acceptable.
- DO NOT compress the file into any sort of archive, submit the SQL Script directly to the appropriate LEARN dropbox.
- Submission of an invalid file type (any file type other than an SQL script) results in an immediate mark of zero.