
Assignment 6 (45 points)
Due Date: Wednesday, March 2, 2016 11:55 PM

Objectives

This assignment focuses on how to join data contained in various tables using conditions specified in the WHERE clause and using the JOIN keyword in the FROM clause. You should understand how the tables relate to each other as well as how to use the table aliases in the current and future assignments.

This assignment uses the tables associated with the *bookstore* Database.

Write SQL statements to perform the following queries:

Query 1: Write a SELECT statement that joins the Category table to the Product table and returns these columns: category_name, product_name, list_price.
Sort the result set by category_name and then by product_name in ascending sequence. use a join using JOIN...ON syntax.

Query 2: Write a SELECT statement that joins the Customer table to the Address table and returns these columns: first_name, last_name, line1, city, state, zip_code.
Return one row for each address for the customer with an email address of allan.sherwood@yahoo.com.

Query 3: Write a SELECT statement that joins the customer table to the Address table and returns these columns: first_name, last_name, line1, city, state, zip_code.
Return one row for each customer, but only return addresses that are the shipping address for a customer.

Query 4: Write a SELECT statement that joins the customer, orders, order_items, and product tables. This statement should return these columns: last_name, first_name, order_date, product_name, item_price, and quantity. Use aliases for the tables.
Sort the final result set by last_name and order_date. use a join using JOIN...ON syntax

Sample Run:

last_name	first_name	order_date	product_name	item_price	quantity
Brown	Christine	2015-03-30 15:22:31	Lenovo H50 Desktop	1199.00	2
Brown	Christine	2015-03-30 15:22:31	Space Force 9	13.95	1
Goldstein	David	2015-03-31 05:43:11	HP Pavilion 15t Star	1299.00	1
Goldstein	David	2015-04-03 12:22:31	From Another Planet	49.99	1

Query 5: Write a SELECT statement that returns the product_name and list_price columns from the Product table. Return one row for each product that has the same list price as another product. Sort the result set by product_name. use a join using JOIN...ON syntax.
Hint: Use a self-join to check that the product_id columns aren't equal but the list_price columns are equal.

Query 6: For each product, retrieve the product id, name of the product, name of the vendor of the product, and price of the product. use a join using JOIN...ON syntax.

Query 7: Write a SELECT statement that returns these two columns:
category_name The category_name column from the category table
product_id The product_id column from the product table
Return one row for each category that has never been used.

Hint: Use an outer join and only return rows where the product_id column contains a null value.

Query 8: For each line item of a sales transaction, retrieve the order identifier, date of the order, name of the product that was sold, quantity sold, and amount charged.
use a join using JOIN...ON syntax.

Sample Run:

order_id	order_date	product_name	quantity	amount
1	2015-03-28 09:40:28	Lenovo H50 Desktop	1	1199.00
1	2015-03-28 09:40:28	Z Files	2	99.98
2	2015-03-28 11:23:20	Toshiba Satellite S55T	1	989.99

Query 9: Determine which orders haven't yet shipped and the name of the customer who placed the order. Sort the results by the date on which the order was placed. use a join using JOIN...ON syntax.

Extra Credit (15 points)

Query 1: Display a list of all products in the Product table. If a product has been ordered by a customer, also list the corresponding order ID and the shipping address ID.

Sample Run:

product_name	order_id	shipping_address_id
Dell XPS 8700	3	1
Dell XPS 8700	7	8
Dell XPS 8700	9	5
Lenovo H50 Desktop	1	1
Lenovo H50 Desktop	4	4

Query 2: Write an SQL statement to list last name and first name of customers who have purchased an item that costs more than \$50. use a join using JOIN...ON syntax

Sample Run:

Last_Name	First_Name
Sherwood	Allan
Zimmer	Barry
Brown	Christine

Query 3: Write an SQL statement to show which customers bought which items, and include any items which have not been sold. Includes last name, first name, order ID, order date, product ID, and product name, Use a join using JOIN...ON syntax.

Last_Name	First_Name	order_id	order_date	product_id	product_name
Sherwood	Allan	3	2015-03-29 09:44:58	1234	Dell XPS 8700
Wilson	Frank Lee	7	2015-04-01 23:11:12	1234	Dell XPS 8700
Goldstein	David	9	2015-04-03 12:22:31	1234	Dell XPS 8700
Sherwood	Allan	1	2015-03-28 09:40:28	2234	Lenovo H50 Desktop
Brown	Christine	4	2015-03-30 15:22:31	2234	Lenovo H50 Desktop

Submission

- You will need to label your assignment with your first initial, last name, and the name of the assignment.
- Zip the files to upload to Insight (yourname_assignment6.zip).
- Submit the zipped file containing the script and output TXT via Insight.
- Remember to include the query number as a comment at each step.
- Read your output TXT file before you turn it in.