
Assignment 11 - Views (45 points)
Due Date: Wednesday, April 20, 2015 11:55 PM

Objectives:

This assignment focuses on how to create and use views and indexes.

This assignment uses the tables associated with the *bookstore* database. Write SQL statements to perform the following queries:

- Query 1:** Create a view named *customer_address* that shows the shipping and billing addresses for each customer.
This view should return these columns from the Customer table: *customer_id*, *email_address*, *last_name* and *first_name*.
This view should return these columns from the Addresses table: *bill_line1*, *bill_line2*, *bill_city*, *bill_state*, *bill_zip*, *ship_line1*, *ship_line2*, *ship_city*, *ship_state*, and *ship_zip*.
- Query 2:** Write a SELECT statement that returns these columns from the *customer_address* view that you created in query 1: *customer_id*, *last_name*, *first_name*, *bill_line1*.
- Query 3:** Write an UPDATE statement that updates the customer table using the *customer_addresses* view you created in query 1. Set the first line of the shipping address to “1990 Westwood Blvd.” for the customer with an ID of 11119.
- Query 4:** Create a view named *order_item_products* that returns columns from the Orders, OrderItems, and Product tables.
This view should return these columns from the Orders table: *order_id*, *order_date*, *tax_amount*, and *ship_date*.
This view should return these columns from the OrderItems table: *item_price*, *discount_amount*, *final_price* (the discount amount subtracted from the item price), *quantity*, and *item_total* (the calculated total for the item).
This view should return the *product_name* column from the Product table.
- Query 5:** Write a SELECT statement that returns all the columns from the *order_item_products* view that you created in query 4.
- Query 6:** Create a view named *product_summary*. This view should return summary information about each product. Each row should include *product_id*, *order_count* (the number of times the product has been ordered) and *order_total* (the total sales for the product).
- Query 7:** Write a SELECT statement that uses the view that you created in query 6 to get total sales for the five best selling products.
- Query 8:** Creates a view named *cheap_products_view* whose subquery retrieves products with prices less than \$15.
- Query 9:** Write a SELECT statement that returns all the columns from the *cheap_products_view* view that you created in query 8.
- Query 10:** Creates a view named *cheap_products_view2* whose subquery retrieves products with prices greater than \$50. Add a CHECK OPTION constraint.

Write an INSERT statement that adds this row to the *cheap_products_view2* view

Product ID : 17888

Category ID: 41

product_code: book db

Product Name: Fundamental of database systems

List_price: 45.99

Description: Fundamental of database systems Elmasri

discount_percent: 20.00

date_added : 2015-06-01 11:12:59

vendor_id : 2

Query 11: Create an index named *i_customers_last_name* on the lastname column of the Customer table.

Query 12: Drop the index *i_customers_last_name*.

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_assignment11.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.