Chapter 12

How to create views

Exercises

1. Create a view named customer_addresses that shows the shipping and billing addresses for each customer.

    This view should return these columns from the Customers 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.

    NOTE: Do NOT include an ORDER BY clause in the SELECT portion of a view. Some implementations of MySQL server encounter errors on subsequent exercises when ORDER BY is used here. Also, views are really virtual tables. As such, it usually does not make much sense for them to have an order.

2. Write a SELECT statement that returns these columns from the customer_addresses view that you created in exercise 1: customer_id, last_name, first_name, bill_line1.

3. Write an UPDATE statement that updates the Customers table using the customer_addresses view you created in exercise 1. Set the first line of the shipping address to "1990 Westwood Blvd." for the customer with an ID of 8.

4. Create a view named order_item_products that returns columns from the Orders, Order_Items, and Products 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 Order_Items 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 Products table.

5. Create a view named product_summary that uses the view you created in exercise 4. This view should return summary information about each product.

    Each row should include product_name, order_count (the number of orders on which one or more units of this product have been ordered) and order_total (the total sales for the product).

6. Write a SELECT statement that uses the view that you created in exercise 5 to get total sales for the five best selling products.