**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. Text

Description automatically generatedA picture containing table

Description automatically generated

1. 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. The rows in the result should be sorted by the last\_name and then first\_name columns. Graphical user interface, text, application

   Description automatically generated
2. 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. Graphical user interface, text, application

   Description automatically generated
3. 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 the product\_name column from the Products table.

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). Graphical user interface, text, application, email

Description automatically generatedGraphical user interface

Description automatically generated

1. 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 times the product has been ordered) and order\_total (the total sales for the product). Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application

Description automatically generated

1. Write a SELECT statement that uses the view that you created in exercise 5 to get total sales for the five best selling products. Sort the result set by the order\_total column in descending sequence. Graphical user interface, text, application, email

   Description automatically generated