

## Chapter 4

# How to retrieve data from two or more tables

## Exercises

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- Write a SELECT statement that joins the Categories table to the Products 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.
- Write a SELECT statement that joins the Customers table to the Addresses 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.
- Write a SELECT statement that joins the Customers table to the Addresses 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.
- Write a SELECT statement that joins the Customers, Orders, Order\_Items, and Products tables. This statement should return these columns: last\_name, first\_name, order\_date, product\_name, item\_price, discount\_amount, and quantity.  
Use aliases for the tables.  
Sort the final result set by last\_name, order\_date, and product\_name.
- Write a SELECT statement that returns the product\_name and list\_price columns from the Products table.  
Return one row for each product that has the same list price as another product.  
*Hint: Use a self-join to check that the product\_id columns aren't equal but the list\_price columns are equal.*  
Sort the result set by product\_name.
- Write a SELECT statement that returns these two columns:
 

category_name	The category_name column from the Categories table
product_id	The product_id column from the Products 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.*

7. Use the UNION operator to generate a result set consisting of three columns from the Orders table:

ship_status	A calculated column that contains a value of SHIPPED or NOT SHIPPED
order_id	The order_id column
order_date	The order_date column

If the order has a value in the ship\_date column, the ship\_status column should contain a value of SHIPPED. Otherwise, it should contain a value of NOT SHIPPED.

Sort the final result set by order\_date.