SIMPLE QUERIES

List the number, name, balance and credit limit of all customers in the database.

List all fields and all rows in the Orders table.

SIMPLE CRITERIA

Find the name of customer 148.

COMPOUND CRITERIA

List the description, on hand value and warehouse number for all parts that have more than 10 units on-hand and that are located in warehouse 3.

List the number, name and balance for each customer whose balance is between $1000 and $5000.

COMPUTED FIELDS

List the number, name and available credit for all customers.

FUNCTIONS

How many customers does sales rep 65 represent?

What is the average balance of all customers of sales rep 35?

GROUPING

What is the average balance for all customers of each sales rep?

SORTING

List the customer number, name, balance and rep-number for each customer. Sort the output alphabetically by customer name.

SORTING ON MULTIPLE KEYS

List the customer number, name, balance and rep-number for each customer. Sort the output by sales rep-number. Within the customers of each sales rep, sort the output by customer name.

JOINING TABLES

List each customer's number and name along with the number, last name and first name of each customer's sales rep.

For each customer whose credit limit is $10000, list customer's number and name along with the number , last name and first name of the corresponding sales rep.

JOINING MULTIPLE TABLES

For each order, list the order number, order date, customer number and name. In addition, for each order line within the order, list the part number, description, number of units ordered and quoted price.

UPDATE QUERY

The zip code for customers located in the city of Fillmore is incorrect; it should be 33363. Change the zip code for these customers to the correct value.

DELETE QUERY

Delete all order lines in which the order number is 21610.

SIMPLE RETRIEVAL

List the number, name and balance of all customers.

List the complete Part table.

List the name of every customer with a $10000 credit limit.

Find the name of customer 148

Find the customer name for every customer located in the city of Grove.

List the number, name, credit limit and balance for all customers with credit limits that exceed their balances.

COMPOUND CONDITIONS

List the descriptions of all parts that are located in warehouse 3 and for which there are more than 20 units on hand.

List the description of all parts that are located in warehouse 3 or for which there are more than 20 units on hand or both.

List the descriptions of all parts that are not in warehouse 3.

List the number, name and balance of all customers with balances greater than or equal to $1000 and less than or equal to $5000.

COMPUTED FIELDS

List the number, name and available credit for all customers.

List the number, name and available credit for all customers with credit limits that exceed their balances.

SPECIAL OPERATORS

List the number, name and complete address of every customer located on a street that contains the letters Oxford.

List the number, name, street and credit limit for every customer with a credit limit of $7500, $10000 or $15000.

SORTING

List the number, name and credit limit of all customers. Sort the customers by name.

List the number, name and credit limit of all customers. Sort the customers by name within descending credit limit. (In other words, sort the customers by credit limit in descending order. Within each group of customers that have a common credit limit, sort the customers by name)

BUILT-IN FUNCTIONS

How many parts in item class HW?

Find the number of customers and the total of their balances.

Find the total number of customers and the total of their balances. Change the column names for number of customers and total of their balances to CustomerCount and BalanceTotal respectively.

SUBQUERIES

List the order number for each order that contains an order line for a part located in warehouse 3.

For each sales rep, list the rep number, the number of customers assigned to the rep and the average balance of the rep's customers. Group the records by rep number and order of the records by rep number.

For each sale rep with fewer than four customers, list the rep number, the number of customers assigned to the rep and the average balance of the rep's customers. Rename the count of the number of customers and the average of the balances to NumCustomers and AverageBalance respectively. Order the groups by rep number.

JOINING TABLES

List the number and name of each customer with number, last name, first name of sales rep who represents the customer. Order the records by customer number.

List the number and name of each customer whose credit limit is $10000 together with number, last name and first name of the sales rep who represents the customer. Order the records by customer number.

For every order, list the order number, order date, customer number and customer name. In addition, for each order line within the order, list the part number, number of units ordered and quoted price. Order the records by order number.

UNION

List the number and name of all customers that are represented by sale rep 35 or that currently have orders on file or both.

UPDATING TABLES

Change the street address of customer 524 to 1445 Rivard.

INSERT

Add a new sales rep to Rep table. Her number is 16; name is Sharon Rands, address is 826 Raymond, Altonville, FL 32543. She has no yet earned any commission, but her commission rate is 5% (0.05).

DELETE

Delete any row in the OrderLine table in which the part number is BV06.

CREATE TABLE

Create a new table named SmallCust consisting of all fields from Customer table and those rows in which the credit limit is less than or equal to $7500.