

**Computer Information Systems  
Database Administration  
SQL Quiz**

Name: \_\_\_\_\_

Syntax:

- SELECT <\*>|field|fieldlist> FROM <tablename> RIGHT|LEFT OUTER JOIN <table2> ON <tablename.field> = <table2.field> [WHERE <where clause> ORDER BY <field> [DESC] [,<field> [DESC]...]]
- SELECT <\*>|field|fieldlist> FROM <tablename> INNER JOIN <table2> ON <tablename.field> = <table2.field> [WHERE <where clause> ORDER BY <field> [DESC] [,<field> [DESC]...]]
- SELECT <\*>|field|fieldlist> FROM <tablename> [WHERE <where clause> ORDER BY <field> [DESC] [,<field> [DESC]...]]
- SELECT <\*>|field|fieldlist> FROM <tablename> INNER JOIN <table2> ON <tablename.field> = <table2.field> [INNER JOIN <table3> ON <tablename>.<field> = <table3>.<field> ....] [WHERE <where clause> ORDER BY <field> [DESC] [,<field> [DESC]...]]
- SELECT <\*>|field|fieldlist> FROM <tablename> WHERE <field> IN ( <SUBQUERY>)
- INSERT [INTO] <tablename> [( <field list>)] VALUES (<datavalues>)
- UPDATE <tablename> SET <fieldname> = <value> [,<fieldname>=<value>...] [WHERE <whereclause>]
- DELETE [FROM] <tablename> [WHERE <whereclause>]
- CREATE DATABASE <database name>
- CREATE TABLE tablename ( <Column1> <fieldType> [PRIMARY KEY, UNIQUE, NULL],....)

1. Which of the above commands is used to display fields from a table?

**SELECT**

2. Which of the above commands adds a new table to the database?

**CREATE TABLE**

3. How many records are created with each INSERT command?

**ONE**

4. What happens if you don't use a where with a DELETE statement?

**ALL RECORDS DELETED**

The next questions will all use the Northwind Database

1. What is the SQL command to display all fields and all records from the Customers table?

**SELECT \* FROM Customers**

2. What is the SQL command to display only the CompanyName and ContactName fields from the Customers table?

**SELECT CompanyName, ContactName FROM Customers**

3. What is the SQL command to display only the companyname, contactname, city, postalcode and phonenumber fields from the customers table and only include those records with a country field = 'USA'?

**SELECT CompanyName, ContactName, City, PostalCode, phonenumber FROM Customers WHERE Country = 'USA'**

4. What is the SQL command to display only the companyname, contactname, city, postalcode and phonenumber fields from the customers table and only include those records with a country field = 'USA' and sorted by the City?

**SELECT CompanyName, ContactName, City, PostalCode, phonenumber FROM Customers WHERE Country = 'USA' ORDER BY City**

5. What is the SQL command to display the companyname, and contactname from the Customers table and the orderdate and requireddate from the orders table? There is a link between customers and orders. The field is customerid.

**SELECT CompanyName, ContactName, OrderDate, RequiredData FROM Customers INNER JOIN Orders ON Orders.CustomerID = Customers.CustomerID**

6. What is the SQL Command to display all fields from all of the following tables. Regions links to Territories by RegionID. Territories links to EmployeeTerritories by TerritoryID. EmployeeTerritories links to Employees by EmployeeID. Employees links to Orders by EmployeeID.

**SELECT \* FROM Regions INNER JOIN Territories ON Territories.RegionID = Regions.RegionID INNER JOIN EmployeeTerritories ON EmployeeTerritories.TerritoryID = Territories.TerritoryID INNER JOIN Employees ON Employees.EmployeeID = EmployeeTerritories.EmployeeID INNER JOIN Orders ON Orders.EmployeeID = Employees.EmployeeID.**

7. Rewrite the above SQL command using subqueries

**SELECT \* FROM Region WHERE Region.RegionID IN  
(SELECT RegionID FROM Territories WHERE Territories.TerritoryID IN  
(SELECT EmployeeTerritories.TerritoryID FROM EmployeeTerritories WHERE  
EmployeeTerritories.EmployeeID IN  
(SELECT Employees.EmployeeID FROM Employees WHERE  
Employees.EmployeeID IN  
(SELECT Orders.EmployeeID FROM Orders))))**

8. What is the SQL command to add a new customer to the customers table? You can make up the data and ALL fields should be filled.

**INSERT INTO Customers VALUES(.....)**

9. What is the SQL command to delete that record?

**DELETE Customers WHERE ...**

10. What would the SQL command be to create a new table? You should specify at least 5 fields for this table.

**CREATE TABLE XYZ (field1 char.....)**