You need to add rows to a database table.  
Which Structured Query Language (SQL) keyword should you use?

**JOIN**

You need to retrieve data from two related database tables based on a column that exists in both tables.  
Which command should you use in a query?

**UNION**

You have a table that contains the following data.

+--------------+---------------+-----------+----------+----------+  
| Product ID | ProductName | Color1 | Color2 | Color3 |  
+--------------+---------------+-----------+----------+----------+  
| 4545 | Shirt | Bule | Green | Purple |  
+--------------+---------------+-----------+----------+----------+

You break the table into the following two tables.

+--------------+---------------+  
| Product ID | ProductName |  
+--------------+---------------+  
| 4545 | Shirt |  
+--------------+---------------+  
  
+--------------+---------------+  
| Product ID | Color |  
+--------------+---------------+  
| 4545 | Blue |  
| 4545 | Green |  
| 4545 | Purple |  
+--------------+---------------+

This process is referred to as:

**Normalization**

Which keyword can be used in a create table statement?

**UNIQUE**

You accept an IT internship at a local charity. The charity asks you to keep a record of its volunteers by using a database table named Volunteer. The table has the following columns and rows:

+----+-------------+  
| ID | GivenName |  
+----+-------------+  
| 1 | Tia |  
| 2 | Susana |  
| 3 | Joey |  
+----+-------------+

When volunteer information changes, you must update the table.  
You need to change Tia's name to Kimberly.  
Which statement should you choose?

**PDATE Volunteer  
SET GivenName = 'Kimberly'  
WHERE GivenName = 'Tia'**

Which command should you use to give a user permission to read the data in a table?

* Selected: a. GRANT SELECTThis answer is correct.
* b. PERMIT READ
* c. ALLOW SELECT
* d. LET READ

1/1

Question 7

A named group of SQL statements that can be executed in a database is called a:

* a. Method
* Selected: b. Stored procedureThis answer is correct.
* c. Formula
* d. Subroutine

1/1

Question 8

You have the following table definition:

CREATE TABLE Road  
(RoadID INTEGER NOT NULL,  
Distance INTEGER NOT NULL)

The Road table contains the following data:

+----------+----------+  
| RoadID | Distance |  
+----------+----------+  
| 1234 | 22 |  
| 1384 | 34 |  
+----------+----------+  
  
You execute the following statement:  
INSERT INTO Road VALUES (1234, 36)  
What is the result?

* a. an error stating that NULL values are not allowed
* b. an error stating that duplicate IDs are not allowed
* c. a syntax error
* Selected: d. a new row in the tableThis answer is correct.

1/1

Question 9

You have a table named Employee that includes the following columns:

EmployeeID  
Smp1oyeeName  
Which statement should you use to return the number of rows in the table?

* a. SELECT SUM(\*) FROM Employee
* b. SELECT COUNT(rows) FROM Employee
* Selected: c. SELECT COUNT(\*) FROM EmployeeThis answer is correct.
* d. SELECT \* FROM Employee

1/1

Question 10

Data in a database is stored in:

* a. Queries
* Selected: b. TablesThis answer is correct.
* c. Data types
* d. Stored procedures

0/1

Question 11

You need to insert two new products into the Product table. The first product is named Book and has an ID of 125. The second product is named Movie and has an ID of 126.

Which statement should you use?

INSERT NEW ID=125 AND 126, Name='Book' AND 'Movie'   
INTO Product

1/1

Question 12

Which statement deletes the rows where the employee's phone number is not entered?

* a. DELETE FROM Employee  
  WHERE Phone IS NOT NULL
* Selected: b. DELETE FROM Employee  
  WHERE Phone IS NULLThis answer is correct.
* c. DELETE FROM Employee  
  WHERE Phone = '%'
* d. DELETE FROM Employee  
  WHERE Phone = NULLABLE

0/1

Question 13

You have a table named Product that contains the following data.

+--------------+------------------+-----------+  
| **ProductID**  | ProductName | Categori |  
+--------------+------------------+-----------+  
| 3296 | Spoon |2222 |  
| 1114 | Chair |4444 |  
+--------------+------------------+-----------+

The PrcducrID column is the primary key. The CategoryID column is a foreign key to a separate table named Category.   
You execute the following statement:

INSERT INTO Product  
VALUES (3296, 'Table', 4444)

What is the result?

a primary key constraint violation

2/2

Question 14

Which two keys establish a relationship between two tables? (Choose two).

* foreignc.
* Primary

1/1

Question 15

This question requires that you evaluate the underlined text to determine if it is correct.  
You have two tables. Each table has three rows.  
Nine rows will be included in the Cartesian product of these two tables.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement corrector.

No change is needed

1/1

Question 16

Which type of index changes the order in which the data is stored in a table?

* a. non-clustered
* b. clustered
* c. sequential
* Selected: d. non-sequentialThis answer is correct.

1/1

Question 17

The component that holds information for a single entry in a table is called a:

* a. Column
* Selected: b. RowThis answer is correct.
* c. View
* d. Data type

1/1

Question 18

You need to populate a table named EmployeeCopy with data from an existing table named Employee.  
Which statement should you use?

* Selected: a. INSERT INTO EmployeeCopy  
  SELECT \*   
  FROM EmployeeThis answer is correct.
* b. INSERT \*   
  FROM Employee  
  INTO EmployeeCopy
* c. COPY \* INTO Employee  
  SELECT \*   
  FROM Employee
* d. SELECT \*   
  INTO EmployeeCopy  
  SELECT \*   
  FROM Employee

0/1

Question 19

You need to enable a new employee to authenticate to your database.  
Which command should you use?

**CREATE USER**

1/1

Question 20

This question requires that you evaluate the underlined text to determine if it is correct.  
The UNION keyword combines the results of two queries and returns only rows that appear in both result sets.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct

**INTERSECT**

1/1

Question 21

Which command should you use to remove a table from a database?

* a. UPDATE TABLE
* b. REMOVE TABLE
* c. DELETE TABLE
* Selected: d. DROP TABLEThis answer is correct.

1/1

Question 22

You have the following table definition:

CREATE TABLE Product  
(ID INTEGER PRIMARY KEY,  
Name VARCHAR(20),  
Quantity INTEGER)

The Product table contains the following data.

+--------------+---------------+-----------+  
| ID | Name | Quantity |  
+--------------+---------------+-----------+  
| 1234 | Apples | 33 |  
| 2615 | Oranges | 0 |  
| 3781 | Pears | 29 |  
| 4589 | Plums | |  
+--------------+---------------+-----------+

You execute the following statement:  
SELECT Name FROM Product WHERE Quantity IS NOT NULL

How many rows are returned?

* a. 0
* Selected: b. 3This answer is correct.
* c. 1
* d. 4
* e. 2

1/1

Question 23

Which keyword would you use in a select statement to return rows that meet a specific condition?

* a. UNION
* Selected: b. WHEREThis answer is correct.
* c. ORDER BY
* d. FROM

1/1

Question 24

You have a table of products with fields for ProductID, Name, and Price.  
You need to write an UPDATE statement that sets the value in the InStock field to Yes for a specific ProductID.  
Which clause should you use in your update statement?

* a. GROUP BY
* b. HAVING
* Selected: c. WHEREThis answer is correct.
* d. THAT

1/1

Question 25

You have a table named Student that contains 100 rows. Some of the rows have a NULL value in the FirstName column.  
You execute the following statement:

DELETE FROM Student

What is the result?

* a. All rows containing a NULL value in the FirstName column will be deleted
* b. You will receive an error message.
* c. All rows and the table definition will be deleted
* Selected: d. All rows in the table will be deletedThis answer is correct.

1/1

Question 26

You need to remove a view named EmployeeView from your database.  
Which statement should you use?

* a. DELETE EmployeeView
* Selected: b. DROP VIEW EmployeeViewThis answer is correct.
* c. DELETE VIEW EmployeeView
* d. DROP EmployeeView

0/1

Question 27

Which constraint ensures a unique value in the ID column for each customer?

* a. SEQUENTIAL
* Selected: b. PRIMARY KEYThis answer is incorrect.
* c. DISTINCT
* d. FOREIGN KEY

1/1

Question 28

You need to rename a column in a database table.  
Which data definition language (DDL) statement should you use?

* a. CREATE
* Selected: b. ALTERThis answer is correct.
* c. INSERT
* d. UPDATE

1/1

Question 29

What defines the amount of storage space that is allocated to a value in a column?

* a. key
* b. format
* Selected: c. data typeThis answer is correct.
* d. validator

1/1

Question 30

On which database structure does an insert statement operate?

* a. User
* b. Stored procedure
* c. Role
* Selected: d. TableThis answer is correct.
* e. Trigger

1/1

Question 31

You need to list the name and price of each product, sorted by price from highest to lowest.  
Which statement should you use?

* a. SELECT Name, BOTTOM Price  
  FROM Product
* b. SELECT Name, TOP Price  
  FROM Product
* Selected: c. SELECT Name, Price   
  FROM Product  
  ORDER BY Price DESCThis answer is correct.
* d. SELECT Name, Price   
  FROM Product  
  ORDER BY Price ASC

1/1

Question 32

Which statement creates a composite key?

* Selected: a. CREATE TABLE Order  
  (OrderID INTEGER,  
  OrderItemID INTEGER,   
  PRIMARY KEY (OrderID, OrderItemID)This answer is correct.
* b. CREATE TABLE Order  
  (OrderID INTEGER,  
  OrderItemID INTEGER,   
  PRIMARY KEY OrderID   
  PRIMARY KEY OrderItemID)
* c. CREATE TABLE Order  
  (OrderID INTEGER PRIMARY KEY,  
  OrderItemID INTEGER PRIMARY KEY)
* d. CREATE TABLE Order  
  (OrderID INTEGER,  
  OrderItemID INTEGER,   
  PRIMARY KEY)

1/1

Question 33

You have a table that contains product IDs and product names.  
You need to write an UPDATE statement to change the name of a specific product to glass.  
What should you include in the update statement?

* a. EXEC ProduetName = 'glass
* b. ASSIGN ProduetName = 'glass
* Selected: c. SET ProduetName = 'glass'This answer is correct.
* d. LET ProduetName = 'glass'

1/1

Question 34

This question requires that you evaluate the underlined text to determine if it is correct.  
Use the FROM keyword in a SELECT statement to return rows that meet a specific condition.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct

* a. No change is needed
* b. UNION
* c. ORDER BY
* Selected: d. WHEREThis answer is correct.

1/1

Question 35

You have a table that contains the following data.

+--------------+------------------+  
| Product ID | ProductCategori |  
+--------------+------------------+  
| 32 | Books |  
| 25 | Books |  
| 67 | Movies |  
| 89 | Movies |  
+--------------+------------------+

Which database term is used to describe the relationship between ProductID and ProductCategory?

* a. Deterministic
* b. Cohort
* c. Compositional
* Selected: d. Functionally dependentThis answer is correct.
* e. Relationally dependen

1/1

Question 36

What is one difference between an update statement and a delete statement?

* Selected: a. An update statement does not remove rows from a tableThis answer is correct.
* b. A delete statement cannot use a where clause
* c. A delete statement works only within a stored procedure
* d. An update statement can change only one row

1/1

Question 37

You have a Department table and an Employee table in your database.  
You need to ensure that an employee can be assigned to only an existing department.  
What should you apply to the Employee table?

* a. A data type
* b. A primary key
* Selected: c. A foreign keyThis answer is correct.
* d. An index
* e. A unique constraint

1/1

Question 38

First normal form requires that a database excludes:

* a. Composite keys
* b. Foreign keys
* Selected: c. Repeating groupsThis answer is correct.
* d. Duplicate rows

0/1

Question 39

While attending college, you accept an IT internship at a local charity. The charity needs to report on data that is related and exists in two tables.  
You need to establish a relationship between the data that is in the two tables.  
Which constraint should you define?

**Index key**

1/1

Question 40

This question requires that you evaluate the underlined text to determine if it is correct.  
The CREATE TABLE command removes one or more table definitions and all data, indexes, triggers, constraints, and permission specifications for those tables   
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct

* **DROP TABLE**

1/1

Question 41

You have the database table named Cars as defined below:

+--------------+-------------+-----------+  
| Type | Color | Origin |  
+--------------+-------------+-----------+  
|Sedan |Red |Japan |  
|Truck |Red |USA |  
|Minivan |Silver |Japan |  
|HatchBack |Red |Japan |  
|Compact |Black |Japan |  
|SUV |Silver |Germany |  
|Convertible |Black |USA |  
|Hybrid |Black |Germany |  
+--------------+-------------+-----------+

You have the following Structured Query Language (SQL) statement:

SELECT \* FROM Cars c  
WHERE c.Origin <> 'USA' AND c.Color <> 'Black'

How many rows are returned by the SQL statement?

* a. 5
* b. 6
* Selected: c. 4This answer is correct.
* d. 7

1/1

Question 42

You accept an IT internship at a local charity. The charity has two tables in their data model named Chapter and Language, as defined below:

**Chapter**  
+-----------+----------------+---------------+----------+  
| ChapterID | City | Region | Country |  
+-----------+----------------+---------------+----------+  
| 1 | Chicago | Illinois | USA |  
| 2 | Los Angeles | California | USA |  
| 3 | New York City | New York | USA |  
| 4 | Toronto | Ontario | Canada |  
+-----------+----------------+---------------+----------+

**Languages**  
+-----------+----------------+  
|LanguageID |LanguageName |  
+-----------+----------------+  
|1 |English |  
|2 |Spanish |  
|3 |French |  
|4 |German |  
+-----------+----------------+

You create a third table named ChapterLanguage to relate the Chapter table and the Language table.  
You need to select columns from the Chapter and Language tables to create a composite primary key for the ChapterLanguage table.  
Which two columns should you select? (Choose two.)

* a. LanguageName
* b. LanguageId
* c. Country
* Selected: d. ChapterIdThis answer is correct.
* e. Region
* Selected: f. CityThis answer is correct.

1/1

Question 43

You have a Customer table and an Order table. You join the Customer table with the Order table by using the CusromerID column.  
The results include:

* All customers and their orders
* Customers who have no orders

Which type of join do these results represent?

* a. Complete join
* Selected: b. Outer joinThis answer is correct.
* c. Partial join
* d. Inner join

1/1

Question 44

The Product table contains the following data.

+--------------+---------------+-----------+  
| ID | Name | Quantity |  
+--------------+---------------+-----------+  
| 1234 | Apples | 33 |  
| 2615 | Oranges | 17 |  
| 3781 | Pears | 20 |  
| 4589 | Plums | 51 |  
+--------------+---------------+-----------+

You execute the following statement:

SELECT COUNT(\*)  
FROM Product WHERE Quantity > 18

What is the value returned by this statement?

* a. 1
* b. 2
* Selected: c. 3This answer is correct.
* d. 4

0/1

Question 45

You assign User1 a set of permissions that include the WITH GRANT OPTION.  
The WITH GRANT OPTION enables User1 to:

* Selected: a. create new database usersThis answer is incorrect.
* b. request a log of permission use
* c. view other users' permissions
* d. delegate permissions to other users

1/1

Question 46

A database contains two tables named Customer and Order.  
You execute the following statement:

DELETE FROM Order  
WHERE CustomerID = 209

What is the result?

* Selected: a. All orders for CustomerID 209 are deleted from the Order tableThis answer is correct.
* b. All orders for CustomerID 209 are deleted from the Order table, and CustomerID 209 is deleted from the Customer table
* c. The first order for CustomerID 209 is deleted from the Order table
* d. CustomerID 209 is deleted from the Customer table

1/1

Question 47

You execute the following statement:

SELECT DepartementName  
 FROM Department  
 WHERE DepartmentID =  
 (SELECT DepartementID FROM Employee WHERE EmployeeID=1234)

This statement is an example of a/an:

* a. Cartesian product
* Selected: b. SubqueryThis answer is correct.
* c. Outer join
* d. Union

1/1

Question 48

You are writing an SQL statement to retrieve rows from a table.

Which data manipulation language (DML) command should you use?

* a. READ
* Selected: b. SELECTThis answer is correct.
* c. OUTPUT
* d. GET

1/1

Question 49

You have the following table definition:

CREATE TABLE Product  
(ProductID INTEGER, Name VARCHAR(20))

You need to insert a new product. The product's name is Plate and the product's ID is 12345.  
Which statement should you use?

* a.   
  INSERT 12345,'Plate'  
  INTO Product
* b. INSERT INTO Product  
  Values (ProductID=12345, Name='Plate')
* Selected: c. INSERT INTO Product (ProductID, Name)  
  Values (12345, Name='Plate')This answer is correct.
* d. INSERT NEW ProductID=12345, Name='Plate'  
  INTO Product

1/1

Question 50

Which database term is used to describe the process of applying a backup to a damaged or corrupt database?

* a. Attach
* Selected: b. RestoreThis answer is correct.
* c. Commit
* d. Recover

1/1

Question 51

On which database structure does an update statement operate?

* a. Role
* b. Trigger
* c. User
* Selected: d. TableThis answer is correct.

1/1

Question 52

This question requires that you evaluate the underlined text to determine if it is correct.  
Use the ALTER statement to add a new table in a database.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

* a. INSERT
* Selected: b. CREATEThis answer is correct.
* c. UPDATE
* d. No change is needed

1/1

Question 53

You need to store product names that vary from three to 30 characters. You also need to minimize the amount of storage space that is used.  
Which data type should you use?

* a. VARCHAR (3, 30)
* b. CHAR (3, 30)
* Selected: c. VARCHAR (30)This answer is correct.
* d. CHAR (30)

1/1

Question 54

You need to combine the results of two queries into a single result that contains all of the rows from both queries.  
Which Structured Query Language (SQL) statement should you use?

* a. EXCEPT
* b. TRUNCATE
* Selected: c. UNIONThis answer is correct.
* d. JOIN

1/1

Question 55

You have a table named Customer. You need to add a new column named District.

Which statement should you use?

* Selected: a. ALTER TABLE Customer ADD (District Integer)This answer is correct.
* b. MODIFY TABLE Customer (District Integer)
* c. MODIFY TABLE Customer ADD (District Integer)
* d. ALTER TABLE Customer MODIFY (District Integer)

1/1

Question 56

One reason to create a stored procedure is to:

* a. Minimize storage space
* b. Give the user control of the query logic.
* c. Bypass case sensitivity requirements.
* Selected: d. Improve performance.This answer is correct.

1/1

Question 57

You need to disable User1's access to view the data in the Customer table.  
Which statement should you use?

* Selected: a. REVOKE SELECT ON Customer  
  FROM User1This answer is correct.
* b. REMOVE SELECT ON Customer  
  FORM User1
* c. REMOVE User1  
  FROM Customer
* d. REVOKE User1  
  FROM Customer

1/1

Question 58

This question requires that you evaluate the underlined text to determine if it is correct.  
In a database table, each column represents a unique record.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct

* Selected: a. RowThis answer is correct.
* b. Index
* c. Table
* d. No change is needed

2/2

Question 59

Which two elements are required to define a column? (Choose two.)

* Selected: a. A data typeThis answer is correct.
* b. An index
* Selected: c. A nameThis answer is correct.
* d. A key

1/1

Question 60

This question requires that you evaluate the underlined text to determine if it is correct.  
Use indexing to create, remove, or change database objects.  
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct

* a. No change is needed
* b. A unique constraint
* c. Data manipulation language (DML) statements
* Selected: d. Data definition language (DDL) statementsThis answer is correct.

1/1

Question 61

You accept an IT internship at a local charity. The charity wants you to help them with compliance and auditing requirements.  
You need to ensure that a column or combination of columns uniquely identifies each row of a table.  
Which constraint should you define?

* a. Secondary key
* Selected: b. Foreign keyThis answer is correct.
* c. Default key
* d. Primary key

1/1

Question 62

You need to establish a set of permissions that you can routinely assign to new users.  
What should you create?

* a. List
* b. Group
* c. Resource
* Selected: d. RoleThis answer is correct.

1/1

Question 63

Which key uniquely identifies a row in a table?

* Selected: a. primaryThis answer is correct.
* b. local
* c. foreiqn
* d. superkey

1/1

Question 64

Which permission does a user need in order to run a stored procedure?

* a. ALLOW
* b. RUN
* Selected: c. EXECUTEThis answer is correct.
* d. CALL

1/1

Question 65

What are three valid data manipulation language (DML) commands? (Choose three.)

* a. OUTPUT
* b. COMMIT
* Selected: c. DELETEThis answer is correct.
* Selected: d. UPDATEThis answer is correct.
* Selected: e. INSERTThis answer is correct.

1/1

Question 66

You execute a statement inside a transaction to delete 100 rows from a table. The transaction fails after only 40 rows are deleted.  
What is the result in the database?

* a. The table will be corrupted
* Selected: b. No rows will be deleted from the tableThis answer is correct.
* c. Forty (40) rows will be deleted from the table
* d. The transaction will restart.

1/1

Question 67

You are writing a select statement to find every product whose name contains a specific character.   
Which keyword should you use in your where clause?

* a. FIND
* b. INCLUDES
* c. BETWEEN
* Selected: d. LIKEThis answer is correct.

1/1

Question 68

You work at a restaurant and they ask you to help them with a data issue.  
They provide you with the following recipe data:

+-----+---------------------+------------------+----------+  
| ID | RecipeName | PrimaryIngredient| Category |  
+-----+---------------------+------------------+----------+  
| 1 | Chicken Parmesan | Chicken | Entree |  
| 2 | Parmesan-Crusted | Chicken | Entree |  
| | Chicken Strips | | |  
| 3 | Spaghetti with Bacon| Bacon | Entree |  
| 4 | Bacon Popcorn | Bacon | Snack |  
+-----+---------------------+------------------+----------+

You need to normalize the data to third normal form.  
How many tables should you create?

* a. 4
* Selected: b. 3This answer is correct.
* c. 2
* d. 1

1/1

Question 69

You are creating a table to store customer data. The AccountNumber column uses values that always consist of one letter and four digits. Which data type should you use for the AccountNumber column?

* a. BYTE
* b. DOUBLE
* c. SMALLINT
* Selected: d. CHARThis answer is correct.

1/1

Question 70

You have two tables. Each table has three rows.

How many rows will be included in the Cartesian product of these two tables?

* a. 3
* Selected: b. 9This answer is correct.
* c. 0
* d. 6