socrative
by Mastery**Connect**

Module 2 - Module Review

✓ **1. The WHERE clause in a SQL statement ...**

(A) limits the column fields that are returned.

(B) limits the row data that is returned.

(C) states which table to retrieve data from.

(D) A and B

(E) I don't know

✓ **2. Which WHERE clause correctly looks for null data in the population column?**

(A) SELECT * FROM country WHERE population = NULL;

(B) SELECT * FROM country WHERE population = 'NULL';

(C) SELECT * FROM country WHERE population IS NULL;

(D) SELECT * FROM country WHERE population == NULL;

(E) I don't know

✓ **3. Select the code which gives the name of countries beginning with U**

(A) SELECT name
FROM world
WHERE name
BEGIN WITH U;

(B) SELECT name
FROM world
WHERE name LIKE '%U'

(C) SELECT name
FROM world
WHERE name LIKE '%u%'

(D) SELECT name
FROM world
WHERE name LIKE U

(E) SELECT name
FROM world
WHERE name LIKE 'U%'

(F) I don't know

✓ **4. Assume the data pictured was stored in a table named "person".**

What would be the first name of the person in the second row returned by the following query:

SELECT first_name, last_name
FROM person
ORDER BY last_name DESC, first_name;

(A) Sarah	
(B) **Gary**	
(C) Alice	
(D) Barb	
(E) John	
(F) Michael	
(G) I don't know	

first_name	last_name	gender	state_of_residence
Sarah	Baker	female	PA
Gary	Smith	male	PA
Alice	Woodard	female	OH
Barb	Green	female	OH
John	Smith	male	PA
Michael	Baker	male	OH

✓ 5. **Assume the data pictured is stored in a table named "person".**

How many rows would be returned by the following query:

SELECT last_name, count(*)
FROM person
GROUP BY last_name;

4

first_name	last_name	gender	state_of_residence
Sarah	Baker	female	PA
Gary	Smith	male	PA
Alice	Woodard	female	OH
Barb	Green	female	OH
John	Smith	male	PA
Michael	Baker	male	OH

✓ 6. **Assume the data pictured is stored in a table named "person".**

How many rows would be returned by the following query:

SELECT state_of_residence, gender, count(*)
FROM person
GROUP BY state_of_residence, gender;

4

first_name	last_name	gender	state_of_residence
Sarah	Baker	female	PA
Gary	Smith	male	PA
Alice	Woodard	female	OH
Barb	Green	female	OH
John	Smith	male	PA
Michael	Baker	male	OH

✓ 7. **Which column represents the foreign key in the Wages table?**

(A) Wage_Id	
(B) **Employee_Id**	
(C) HourlyRate	
(D) TaxRate	
(E) I don't know	

Employee

Employee_Id	First_Name	Last_Name	Department
10001	Linda	Mojito	Sales
10002	Chuck	Powers	Finance
10003	Heartless	John	HR
10004	Indiana	Jones	Sales

Wages

Wage_Id	Employee_Id	HourlyRate	TaxRate
1	10001	25	20%
2	10002	20	25%
3	10003	25	15%
4	10004	30	20%

HoursWorked

TimeCard_Id	Employee_Id	NormalHours	OvertimeHours
1	10001	36	0
2	10002	40	0
3	10003	45	5
4	10004	50	10
5	10001	44	4

8. **What is the result of the following query?**

```
SELECT Employee.Department, SUM(HoursWorked.NormalHours)
FROM Employee
INNER JOIN HoursWorked ON Employee.Employee_Id = HoursWorked.Employee_Id
GROUP BY Employee.Department
ORDER BY Employee.Department;
```

A   Finance 40
HR 45
Sales 36
Sales 44
Sales 50

B   Sales 130
HR 45
Finance 40

C   Finance 40
HR 45
Sales 130

D   Finance 40
HR 45
Sales 36

E   I don't know

Employee

Employee_Id	First_Name	Last_Name	Department
10001	Linda	Mojito	Sales
10002	Chuck	Powers	Finance
10003	Heartless	John	HR
10004	Indiana	Jones	Sales

Wages

Wage_Id	Employee_Id	HourlyRate	TaxRate
1	10001	25	20%
2	10002	20	25%
3	10003	25	15%
4	10004	30	20%

HoursWorked

TimeCard_Id	Employee_Id	NormalHours	OvertimeHours
1	10001	36	0
2	10002	40	0
3	10003	45	5
4	10004	50	10
5	10001	44	4

9. **True or False?**

A Foreign Key column cannot contain the same value in more than one row (i.e. values must be unique).

A   True

B   False

C   I don't know

10. **INSERT INTO person (person_id, first_name, middle_name, last_name) VALUES (101, 'Emerson', 'Ralph', 'Waldo');**

```
SELECT first_name
FROM person
WHERE person_id = 101;
```

What value would be returned by the SELECT statement?

A   Ralph

B   Waldo

C   Emerson

D   I don't know

11. **Assume the data pictured was stored in a table named "president".**

How many rows would be left in the table after the following statement was run?

DELETE FROM president;

0

FIRST_NAME	LAST_NAME	NUMBER	TERM_BEGIN	TERM_END
George	Washington	1	1789-04-30	1797-03-04
John	Adams	2	1797-03-04	1801-03-04
Thomas	Jefferson	3	1801-03-04	1809-03-04
James	Madison	4	1809-03-04	1817-03-04
James	Monroe	5	1817-03-04	1825-03-04

✓ 12. **Assume the data pictured was stored in a table named "president".**

If the following UPDATE statement were run:

UPDATE president
SET number = number * 2;

What value would be returned by the following SELECT statement?

SELECT last_name
FROM president
WHERE number = 4;

Adams

FIRST_NAME	LAST_NAME	NUMBER	TERM_BEGIN	TERM_END
George	Washington	1	1789-04-30	1797-03-04
John	Adams	2	1797-03-04	1801-03-04
Thomas	Jefferson	3	1801-03-04	1809-03-04
James	Madison	4	1809-03-04	1817-03-04
James	Monroe	5	1817-03-04	1825-03-04

✓ 13. **Assume the data pictured was stored in a table named "president".**

If the following series of statements were run:

BEGIN TRANSACTION;

UPDATE president
SET number = number * 2;

ROLLBACK;

What value would be returned by the following SELECT statement?

SELECT last_name
FROM president
WHERE number = 4;

Madison

FIRST_NAME	LAST_NAME	NUMBER	TERM_BEGIN	TERM_END
George	Washington	1	1789-04-30	1797-03-04
John	Adams	2	1797-03-04	1801-03-04
Thomas	Jefferson	3	1801-03-04	1809-03-04
James	Madison	4	1809-03-04	1817-03-04
James	Monroe	5	1817-03-04	1825-03-04

✓ 14. **If we use**

A -> B

To represent that A has a dependency on B, which of the following is correct?

A) Database -> JDBC Driver -> JDBC -> Spring JDBC

B) Spring JDBC -> JDBC -> Database -> JDBC Driver

C) JDBC -> Spring JDBC -> JDBC Driver -> Database

D Spring JDBC -> JDBC -> JDBC Driver ->Database

E I don't know

✓ 15. Which of the following classes is provided by Spring JDBC for executing SQL statements and returning results?

A PreparedStatement

B Statement

C JdbcTemplate

D SqlRowSet

E I don't know

✓ 16. JdbcTemplate jdbcTemplate = new JdbcTemplate(dataSource);

String sqlCreatePerson = "INSERT INTO person(middle_name, last_name, first_name) VALUES (?, ?, ?)";

jdbcTemplate.update(sqlCreatePerson, "Stevie", "Ray", "Vaughan");

What value would be inserted into the last_name column by the code snippet above?

A Stevie

B Ray

C Vaughan

D I don't know