

Module 2 - Data Manipulation, Constraints, ...

100% (10/10)



1. What type of constraint ensures values in a column must reference an existing record in another table?

- ☐ (A) Primary Key
- ☒ (B) Foreign Key
- ☐ (C) Check Constraint
- ☐ (D) Not Null Constraint
- ☐ (E) Unique Constraint
- ☐ (F) I don't know



2. True or False?

A Primary Key field cannot contain a null value.

- ☒ (A) True
- ☐ (B) False
- ☐ (C) I don't know



3. 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



4. `INSERT INTO person (person_id, last_name, middle_name, first_name)
VALUES (100, 'Thoreau', 'Henry', 'David');`

`SELECT first_name
FROM person
WHERE person_id = 100;`

What value would be returned by the SELECT statement?

- ☐ (A) Henry
- ☒ (B) David
- ☐ (C) Thoreau
- ☐ (D) I don't know

- ✓ 5. 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

- ✓ 6. 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

- ✓ 7. 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  
WHERE first_name LIKE 'J%';
```

2

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

- ✓ 8. Assume the data pictured was stored in a table named "president".

If the following UPDATE statement were run:

```
UPDATE president  
SET first_name = 'Jim'  
WHERE first_name = 'James'  
AND number < 5;
```

What value would be returned by the following SELECT statement?

```
SELECT first_name  
FROM president  
WHERE last_name = 'Monroe';
```

James

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

- ✓ 9. 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

- ✓ 10. 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