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Module 3: Week 1 Review 100%

✓ **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. Given a table called Books, write the SQL statement used to SELECT all columns from the table.**

```
select * from books;
```

✓ **5. 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

✓ 6. **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

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

How many rows would be returned by the following query:

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

2

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

✓ 8. **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

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

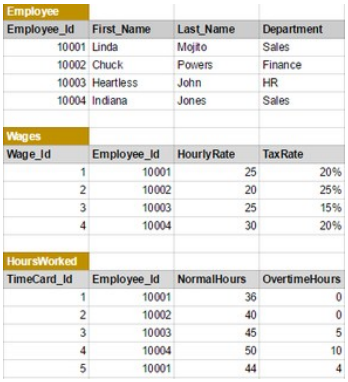
A Wage_Id

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

✓ **10. 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;
```

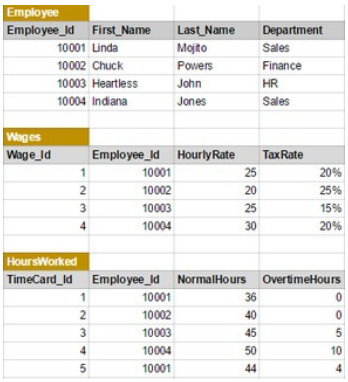
A Finance 40
HR 45
Sales 36
Sales 44
Sales 50

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
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Wages

Wage_Id	Employee_Id	HourlyRate	TaxRate
1	10001	25	20%
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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

✓ **11. 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

✓ **12.**

```
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

✓ 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. For a given column in a database row, it is acceptable to hold multiple values.

A True

B False

✓ 15. When normalizing a database table, any column that is not dependent on the primary key should be broken out into its own table.

A True

B False