




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

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- A limits the column fields that are returned. 
- B limits the rows that are returned. 
- C states which table to retrieve data from. FROM
- D A and B 
- E I don't know
- i No Explanation

Where clause filters the rows returned

SELECT * FROM city
WHERE state_abbreviation = 'OH';

4. Which WHERE clause correctly looks for null data in the population column?

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- 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

6. Select the code which gives the name of countries beginning with U

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- 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
- i No Explanation

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

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

```
SELECT first_name, last_name
FROM employee
ORDER BY last_name DESC, first_name;
```

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

employee			
first_name	last_name	department	state_of_residence
Sarah	Baker	Sales	PA
Gary	Smith	Marketing	PA
Alice	Woodard	Engineering	OH
Barb	Green	Engineering	OH
John	Smith	Sales	PA
Michael	Baker	Engineering	OH

Alice Woodard

Gary Smith

Smith

12. Assume the data pictured is stored in a table named "employee".

How many rows would be returned by the following query:

```
SELECT last_name, count(*)
FROM employee
GROUP BY last_name;
```

how many rows or buckets will be returned

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6
6
2
6
4
4
4
4

employee			
first_name	last_name	department	state_of_residence
Sarah	Baker	Sales	PA
Gary	Smith	Marketing	PA
Alice	Woodard	Engineering	OH
Barb	Green	Engineering	OH
John	Smith	Sales	PA
Michael	Baker	Engineering	OH

Baker 2
Green 1
Smith 2
Woodard 1

13. Assume the data pictured is stored in a table named "employee".

How many rows would be returned by the following query:

```
SELECT department, count(*)  
FROM employee  
GROUP BY department;
```

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3

3

3

3

2

2

3

3

employee			
first_name	last_name	department	state_of_residence
Sarah	Baker	Sales	PA
Gary	Smith	Marketing	PA
Alice	Woodard	Engineering	OH
Barb	Green	Engineering	OH
John	Smith	Sales	PA
Michael	Baker	Engineering	OH

Sales 2
Marketing 1
Engineering 3

14. Assume the data pictured is stored in a table named "employee".

How many rows would be returned by the following query:

```
SELECT state_of_residence, department, count(*)  
FROM employee  
GROUP BY state_of_residence, department;
```

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2

3

3

2

2

2

employee			
first_name	last_name	department	state_of_residence
Sarah	Baker	Sales	PA
Gary	Smith	Marketing	PA
Alice	Woodard	Engineering	OH
Barb	Green	Engineering	OH
John	Smith	Sales	PA
Michael	Baker	Engineering	OH

PA Sales
PA Marketing
OH Engineering

16. Assume the data pictured is stored in a table named "employee".

What would be the value of the employee_count field of the first row returned by the following query:

```
SELECT state_of_residence, department, count(*) AS  
employee_count  
FROM employee  
GROUP BY state_of_residence, department  
ORDER BY state_of_residence DESC, department
```

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6

6

1

6

employee			
first_name	last_name	department	state_of_residence
Sarah	Baker	Sales	PA
Gary	Smith	Marketing	PA
Alice	Woodard	Engineering	OH
Barb	Green	Engineering	OH
John	Smith	Sales	PA
Michael	Baker	Engineering	OH

PA Sales 2
PA Marketing 1
OH Engineering 3

PA Marketing 1
PA Sales 2
OH Engineering 3

