

Name: \_\_\_\_\_

Score: \_\_\_\_ / \_\_\_\_

Quiz 3 - Fall 2021

Part 1

How many rows would be returned from:

***SELECT \* FROM AA WHERE c = 7;***

Attachments

Table **AA**

a	b	c	d
1	3	6	B
2	3	7	B
1	3	7	B
1	3	8	C

Table **BB**

d	e
B	3
B	2
A	1

Table **CC**

f	e
B	3
C	2
C	3

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4
- ☐ E. None of the above

Answer Point Value: 1.0 points

Answer Key: B

How many attributes would be returned from:

***SELECT \* FROM AA WHERE c = 7;***

Attachments

**Table AA**

a	b	c	d
1	3	6	B
2	3	7	B
1	3	7	B
1	3	8	C

**Table BB**

d	e
B	3
B	2
A	1

**Table CC**

f	e
B	3
C	2
C	3

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4
- ☐ E. None of the above

Answer Point Value: 1.0 points

Answer Key: D

Attachments

**Table AA**

a	b	c	d
1	3	6	B
2	3	7	B
1	3	7	B
1	3	8	C

**Table BB**

d	e
B	3
B	2
A	1

**Table CC**

f	e
B	3
C	2
C	3

**Accepted characters:** numbers, decimal point markers, sign indicators (-), spaces (e.g., as thousands separator, 5 000), "E" or "e" (used in scientific notation). **NOTE:** For scientific notation, a period MUST be used as the decimal point marker.

There would be \_\_\_\_ rows would be returned by this SQL statement:

***SELECT b,c FROM AA WHERE d='B';***

Answer Point Value: 1.0 points

Answer Key: 3

Attachments

Table **AA**

a	b	c	d
1	3	6	B
2	3	7	B
1	3	7	B
1	3	8	C

Table **BB**

d	e
B	3
B	2
A	1

Table **CC**

f	e
B	3
C	2
C	3

**Accepted characters:** numbers, decimal point markers, sign indicators (-), spaces (e.g., as thousands separator, 5 000), "E" or "e" (used in scientific notation). **NOTE:** For scientific notation, a period MUST be used as the decimal point marker.

There will be \_\_\_\_ rows returned by this SQL query:

```
SELECT a, f FROM AA,CC where b=e and d='B';
```

Answer Point Value: 1.0 points

Answer Key: 6

Attachments

Table **AA**

a	b	c	d
1	3	6	B
2	3	7	B
1	3	7	B
1	3	8	C

Table **BB**

d	e
B	3
B	2
A	1

Table **CC**

f	e
B	3
C	2
C	3

**Accepted characters:** numbers, decimal point markers, sign indicators (-), spaces (e.g., as thousands separator, 5 000), "E" or "e" (used in scientific notation). **NOTE:** For scientific notation, a period MUST be used as the decimal point marker.

This SQL command:

```
SELECT a, d FROM AA WHERE c NOT IN (SELECT c FROM AA WHERE d="B");
```

will return \_\_\_\_ row(s).

Answer Point Value: 1.0 points

Answer Key: 1

Decide if the following commands are either a MySQL command OR a standard SQL command

- |   |                  |
|---|------------------|
| 1. SHOW tables;   | A. MySQL Command |
| 2. INSERT INTO customer (cid,first,last) VALUES ('100','Harry','Potter'); | B. SQL command   |

Answer Point Value: 1.0 points

Answer Key: 1:A, 2:B

**Accepted characters:** numbers, decimal point markers, sign indicators (-), spaces (e.g., as thousands separator, 5 000), "E" or "e" (used in scientific notation). **NOTE:** For scientific notation, a period MUST be used as the decimal point marker.

Given tables AA and BB below, the SQL command:

SELECT a, AA.b, f FROM AA, BB WHERE c=5;

will return \_\_\_\_ columns and \_\_\_\_ rows.

**Table AA**

a	b	c
1	3	4
2	3	5
4	2	5

**Table BB**

b	f	g
3	7	5
5	9	8
5	2	5

Answer Point Value: 2.0 points

Answer Key: 3, 6

How many rows would be returned from:

`SELECT SUM(a) FROM A GROUP BY c;`

assuming you have the following tables:

**Table A:**

<b>a</b>	<b>b</b>	<b>c</b>
1	3	5
5	5	5
3	4	5
5	2	8

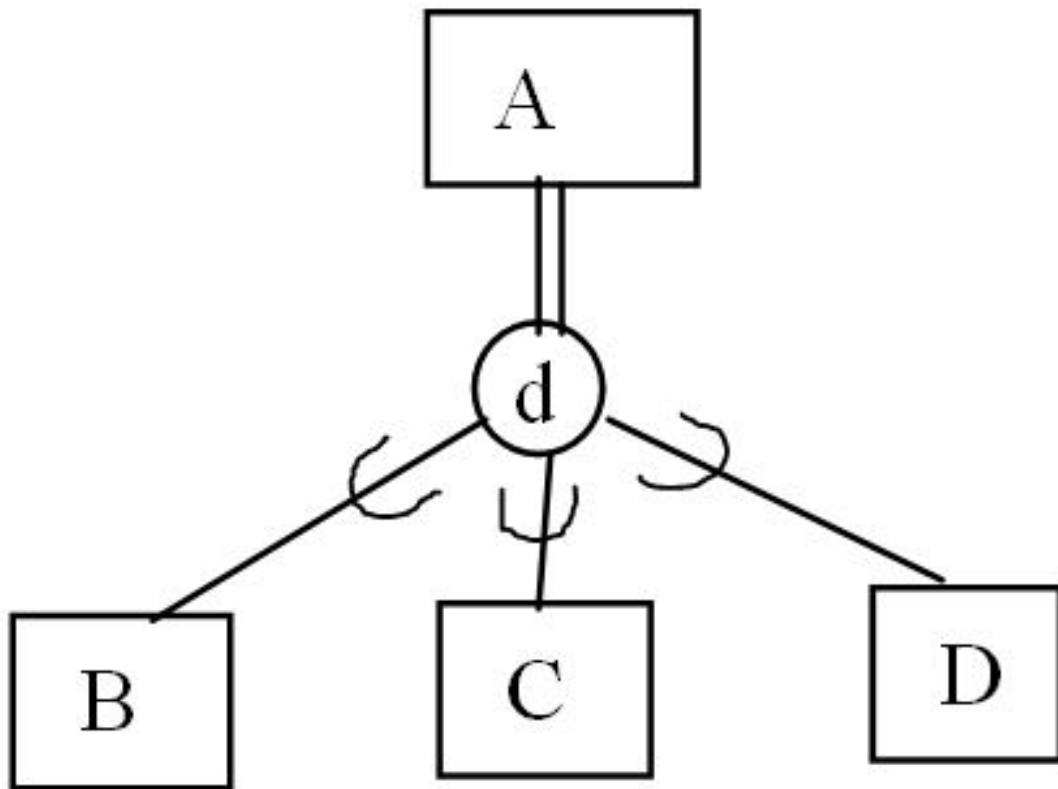
- ☐ A. less than 1
- ☐ B. 1
- ☐ C. 2
- ☐ D. 3
- ☐ E. 4
- ☐ F. more than 4

Answer Point Value: 2.0 points

Answer Key: C

An instance of an entity of type A could be further classified as an entity of type B AND as an entity of type C at the same time.

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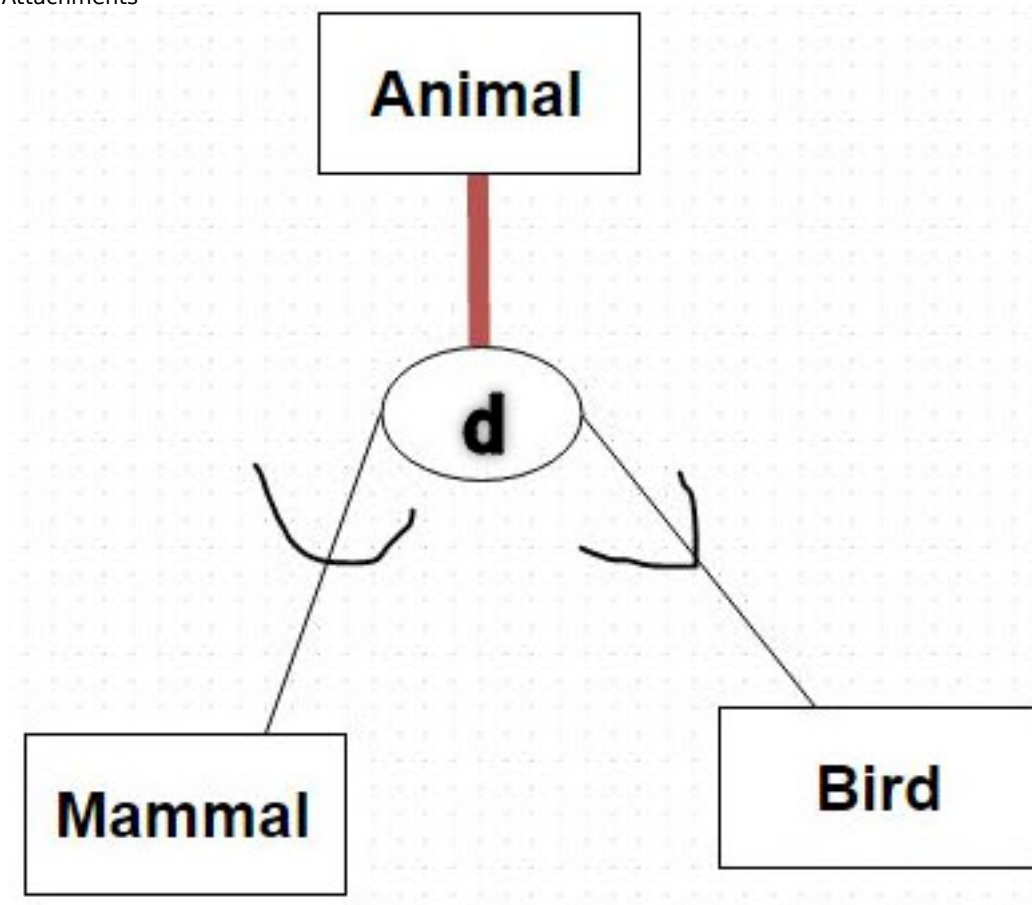
- ☐ True
- ☐ False

Answer Point Value: 1.0 points

Answer Key: False

Given the following diagram and assuming you are going to store information about **all** Canadian animals and no additional entities will be added, what type of line should the red line be?

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- ☐ A. Single
- ☐ B. Dashed
- ☐ C. Double

Answer Point Value: 1.0 points

Answer Key: A

**Accepted characters:** numbers, decimal point markers, sign indicators (-), spaces (e.g., as thousands separator, 5 000), "E" or "e" (used in scientific notation). **NOTE:** For scientific notation, a period MUST be used as the decimal point marker.

Given the tables below, the following relational calculus expression will return \_\_\_\_ tuples/rows and \_\_\_\_ attributes.

**{t | B(t) AND t.baa="a4"}**

**Table A**

aa		bb		cc
a1		b1		7
a2		b2		2
a4		b1		5
a1		b2		4

**Table B**

baa	bff
a4	c1
a2	c7
a4	c5
a4	c7

Answer Point Value: 2.0 points

Answer Key: 3, 2



Given the tables below, how many tuples would the following relational calculus return?

$\{a.aa, a.bb \mid A(a) \text{ and } ((\exists b)(B(b) \text{ and } b.baa=a.aa \text{ and } a.cc>3))\}$

**Table A**

aa	bb	cc
a4	b1	7
a2	b2	4
a4	b1	8
a2	b2	1

**Table B**

baa	bff
a4	c1
a2	c7
a2	c5
a4	c7

- ☐ A.  
Less than 2
- ☐ B.  
2
- ☐ C.  
3
- ☐ D.  
4
- ☐ E.  
5
- ☐ F.  
6
- ☐ G.  
7
- ☐ H.  
8
- ☐ I.  
More than 8

Answer Point Value: 1.0 points

Answer Key: B

Assume you have created a table called *bloodtype* using this command:

**CREATE TABLE bloodtype (bloodtypeid CHAR(2), rhfactor CHAR(1), type CHAR(2), percent INT, PRIMARY KEY (bloodtypeid));**

The SQL command to add the row for the blood type of AB positive (+) where 17% of the population have that type would be (FILL IN THE BLANK):

\_\_\_\_ INTO bloodtype VALUES ('08','+', 'AB',17);

Answer Point Value: 1.0 points

Answer Key: INSERT

How long did it take you complete the peer marking (this is a free mark, there is no wrong answer).

- ☐ A. Less than 1 hour
- ☐ B. 1 to 1.5 hours
- ☐ C. 1.5 to 2 hours
- ☐ D. More than 2 hours

Answer Point Value: 1.0 points

Answer Key: A,B,C,D