Question 1
50 / 50 pts

There are similarities between relational algebra operations and MySQL operations, select MySQL operations that best correspond to the

σ

| WHERE ▾ |

π

| SELECT ▾ |

$\bowtie$

| Join ▾ |

Question 2
25 / 25 pts

Which query best represents this relational algebra statement:

$$\Pi_{d,f}(\sigma_{Foo.x="Bear"}((Foo \bowtie_{Foo.x=Bar.z} Bar) \bowtie_{Foo.x=Baz.z} Baz))$$

○

SELECT Foo.d, Foo.f FROM Foo

INNER JOIN Bar ON Foo.x = Bar.z
INNER JOIN Baz ON Foo.x = Baz.z
WHERE Foo.x = "Bear";

○

SELECT d, f FROM Bar

INNER JOIN Baz ON Foo.x = Baz.z
INNER JOIN Foo ON Foo.x = Bar.z
WHERE Foo.x = "Bear";

◉

SELECT d, f FROM Foo

INNER JOIN Bar ON Foo.x = Bar.z
INNER JOIN Baz ON Foo.x = Baz.z
WHERE Foo.x = "Bear";

○

SELECT * FROM Bar

INNER JOIN Baz ON Foo.x = Baz.z

INNER JOIN Foo ON Foo.x = Bar.z
WHERE Foo.x = "Bear";

Question 3
25 / 25 pts

Which query best represents this relational algebra statement:

$$\sigma_{Foo.a<100}\left(Foo \bowtie_{Foo.b=Bar.c} Bar\right)$$

○

SELECT Foo.a FROM Foo

INNER JOIN Bar ON Foo.b = Bar.c
WHERE Foo.a < 100;

○

SELECT a FROM Foo

INNER JOIN Bar
WHERE Foo.a < 100;

○

SELECT Foo.a FROM Foo

INNER JOIN Bar
WHERE Foo.a < 100;

◉

SELECT * FROM Foo

INNER JOIN Bar ON Foo.b = Bar.c
WHERE Foo.a < 100;

Quiz Score: **100** out of 100