

# Quiz6 (Relational Algebra Quiz)

**Due** Nov 13 at 1:59am**Points** 100**Questions** 3**Time Limit** None**Allowed Attempts** Unlimited

## Instructions

A self check on basic relational algebra concepts

[Take the Quiz Again](#)

## Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 4</a>	1 minute	100 out of 100
LATEST	<a href="#">Attempt 4</a>	1 minute	100 out of 100
	<a href="#">Attempt 3</a>	less than 1 minute	75 out of 100
	<a href="#">Attempt 2</a>	2 minutes	75 out of 100
	<a href="#">Attempt 1</a>	5 minutes	50 out of 100

🔒 Correct answers are hidden.

Score for this attempt: **100** out of 100

Submitted Nov 12 at 1:14pm

This attempt took 1 minute.

### Question 1

**50 / 50 pts**

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

 $\sigma$ 

WHERE

 $\pi$

SELECT ▼



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:

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

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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