

Knowledge Check 3: Relational Algebra

2

Due No due date	Points 0	Questions 5
Time Limit None	Allowed Attempts Unlimited	

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Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	2 minutes	0 out of 0

Submitted Jan 29 at 11:23am

You Answered

Correct Answer

Question 1

0 / 0 pts

Consider a relation, STUDENT, with the following attributes: Name, ID number, Major, Graduation Year, and GPA. Consider a query using this relation: “List the names and ID numbers of students majoring in Computer Science.” Which operator is absolutely necessary for this query?

Intersection

Union

Difference

Projection

The union operator requires two relations, hence, it is not necessary for this query.

Question 2**0 / 0 pts**

Consider two sets: A with 10 tuples, and B with 5 tuples. What is the maximum number of tuples that the intersection of A and B can have?

☐ 15☒ 5

The number of tuples in the intersection must be less than the minimum number of tuples in A and B.

☐ 50☐ 10**Correct!****Question 3****0 / 0 pts**

What is the Θ -Join operation used for?

☒ To join two tuples in the same relation.

Joining two tuples in the same relation is meaningless.

☐ To join two attributes in the same relation.☐ To join two databases.☐ To join two relations in a database.**Not Answered****Incorrect Answer****Question 4****0 / 0 pts**

Which statement about the selection operator is correct?

Correct!

- ☒ It displays certain tuples based on given criteria.

This is the output of the selection operator.

- ☐ It displays certain attributes based on given criteria.
- ☐ It requires more than one relation.
- ☐ It requires more than one attribute.

Question 5**0 / 0 pts**

How many rows are in the output for the following:

$\sigma_{class=SR}(eee_major)$

eee_majors

id	name	class
2222	Student2	SO
4444	Student4	SR
6666	Stduent6	SR

- ☐ 0

- ☐ 1

- ☒ 2

You get the rows with Student IDs 4444 and 6666

- ☐ 3

Correct!