RPI Computer Science (2) > Submitty > Database Systems (2) > Lecture 14 Exercise



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New submission for: Lecture 14 Exercise

Due: 10/23/2021 @ 04:00 PM EDT

Gradeable Time Remaining: 01 days 22 hours

Use the following tables in all the questions in this exercise data.

```
CREATE TABLE a(aid INT PRIMARY KEY);
CREATE TABLE b(bid INT PRIMARY KEY);
CREATE TABLE c(
  cid INT PRIMARY KEY
  , aid INT
  , bid INT NOT NULL
  , FOREIGN KEY (aid) REFERENCES a(aid) ON DELETE SET
  , FOREIGN KEY (bid) REFERENCES b(bid) ON DELETE CAS
CREATE TABLE d(
  did INT PRIMARY KEY
  , cid INT
  , FOREIGN KEY (cid) REFERENCES c(cid) ON DELETE SET
               b
                                                    d
                               С
                          cid aid bid
                                                did c
                                  3
                                                8
    1
               3
                              1
                              2 3
```

9 10

 1. Suppose we execute the following command on the original database:

delete from a where aid=1;
Choose all the tuples that will be **deleted.**

✓ Table a: (1)

Table a: (2)

Table b: (3)

Table b: (4)

Table c: (5,1,3)

Table c: (6,2,3)

Table c: (7,1,3)

Table d: (8,6)

Table d: (9,6)

Table d: (10,7)

None of these tuples

Clear

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2. Suppose we execute the following command on the original database:

delete from b where bid=3;

Choose all the tuples that will be **deleted**.

Table a: (1)

Table a: (2)

✓ Table b: (3)

Table b: (4)

✓ Table c: (5,1,3)

✓ Table c: (6,2,3)

✓ Table c: (7,1,3)

Table d: (8,6)

Table d: (9,6)

Table d: (10,7)

None of these tuples

Clear

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 3. Suppose we execute the following command on the original database:

delete from b where bid=4; Choose all the tuples that will be **deleted**.

Table a: (1)

Table a: (2)

Table b: (3)

✓ Table b: (4)

Table c: (5,1,3)

Table c: (6,2,3)

Table c: (7,1,3)

Table d: (8,6)

Table d: (9,6)

Table d: (10,7)

None of these tuples

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4. Suppose we execute the following command on the original database:

update b set bid=33 where bid=3;

Choose all the tuples that will **change** as a result of this operation:

Table a: (1)

Table a: (2)

Table b: (3)

Table b: (4)

Table c: (5,1,3)

Table c: (6,2,3)

Table c: (7,1,3)

Table d: (8,6)

Table d: (9,6)

Table d: (10,7)

✓ None of these tuples

Clear

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5. Suppose we execute the following command on the original database:

update c set cid=66 where cid=6;

Choose all the tuples that will **change** as a result of this operation:

- Table a: (1)
- Table a: (2)
- Table b: (3)
- Table b: (4)
- Table c: (5,1,3)
- **✓** Table c: (6,2,3)
 - Table c: (7,1,3)
- **✓** Table d: (8,6)
- **✓** Table d: (9,6)

Table d: (10,7)

None of these tuples

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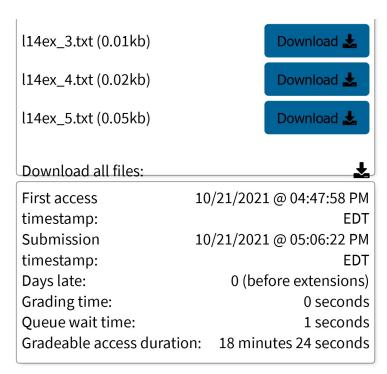
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