

# RPI Computer Science >

## Submitty >

## Database Systems >

### 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
```

| a   |  | b   |  | c   |     |     | d   |   |
|-----|--|-----|--|-----|-----|-----|-----|---|
| aid |  | bid |  | cid | aid | bid | did | c |
| 1   |  | 3   |  | 5   | 1   | 3   | 8   |   |
| 2   |  | 4   |  | 6   | 2   | 3   | 9   |   |
|     |  |     |  | 7   | 1   | 3   | 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

Use Most Recent Submission

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

Clear

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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

Clear

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