

New submission for: Lecture 14 Exercise

Due: 10/25/2020 @ 11:59 PM EDT

Use the following tables in all the questions in this exercise. Assume each question uses the original set of 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 NULL ON UPDATE CASCADE
  , FOREIGN KEY (bid) REFERENCES b(bid) ON DELETE CASCADE
) ;
CREATE TABLE d(
  did INT PRIMARY KEY
  , cid INT
  , FOREIGN KEY (cid) REFERENCES c(cid) ON DELETE SET NULL ON UPDATE CASCADE);
```

a		b	c			d	
aid		bid	cid	aid	bid	did	cid
1		3	5	1	3	8	6
2		4	6	2	3	9	6
			7	1	3	10	7

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

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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