RPI Computer Science ⬈ ❯
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Database Systems ⬈ ❯
Lecture 13 Exercise

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New submission for: Lecture 13 Exercise

Due: 10/20/2021 @ 04:00 PM EDT

Gradeable Time Remaining: 01 days 22 hours

You are given the baking database:

bakers(baker,fullname,age,occupation,hometown)

episodes(id,title,firstaired,viewers7day,signature,technical

results(episodeid,baker,result)
technicals(episodeid,baker,rank)

signatures(episodeid,baker,make)

showstoppers(episodeid,baker,make)

favorites(episodeid,baker)

For each question, enter your SQL query directly in the box. Do not forget to put a semicolon at the end.

Please make sure you DO NOT use any non-ASCII characters in your queries. This includes all fancy quotes you might get if you copy code from a PDF or other rich format. Postgresql will throw an error if it encounters invalid characters, and you will garde a zero for that question.

Note that you cannot change existing tables. So, in this exercise, we will do all our updates in a new table. The queries will execute sequentially, so you must complete them in the order given below.

After each operation, we will simply show the contents of the points table.

Create a table as shown below:

create table points(baker varchar(100), pointvalue int)
;

Press TAB to indent. Press ESC to advance from answer area.

```
create table points
(baker varchar(100), pointvalue int) ;
```

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2. Insert into the points relation, a tuple for each
   baker with a pointvalue of zero.

Press TAB to indent. Press ESC to advance from answer area.

```
INSERT INTO points
SELECT baker, 0 FROM bakers ;
```

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3. Delete from the points relation all bakers where
   the baker value starts with a J.

Press TAB to indent. Press ESC to advance from answer area.

```
DELETE FROM points
WHERE lower(baker) LIKE 'j%';
```

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4. Delete from the points relation all bakers who were eliminated in episodes 1-5 (inclusive).

Press TAB to indent. Press ESC to advance from answer area.

```
DELETE FROM points
WHERE baker IN
(SELECT baker FROM results WHERE episodeid
BETWEEN 1 AND 5 and result = 'eliminated');
```

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5. Update the points relation such that the point value for remaining bakers whose baker value does not start with 'D' is equal to the total number of episodes that they won star baker on plus the total number of episodes in which they won the technical challenge.

Press TAB to indent. Press ESC to advance from answer area.

```
UPDATE points
SET pointvalue =
COALESCE((SELECT COUNT(DISTINCT r.episodeid)
FROM results r
WHERE r.baker = points.baker and
r.result = 'star baker'
GROUP BY r.baker), 0) +
COALESCE((SELECT COUNT(DISTINCT t.episodeid)
FROM technicals t
WHERE t.baker = points.baker and t.rank = 1
GROUP BY t.baker), 0)
WHERE lower(baker) NOT LIKE 'd%';
```

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By clicking "Submit" you are confirming that you have read, understand, and agree to follow the Academic

Integrity Policy.

Submit

Select Submission Version:

Version #5   Score: 50 / 50   GRADE THIS VI ⌄

Do Not Grade This Assignment

Note: This version of your assignment will be graded by the instructor/TAs and the score recorded in the gradebook.

Submitted Files

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First access timestamp:	10/18/2021 @ 05:45:12 PM EDT
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50 / 50	**Autograding Total**

50 / 50	**l13ex**	Show Details