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Homework 2

3.14

Query:

- a.

```
SELECT count(report_number)
FROM accident
WHERE report_number in
(SELECT report_number
FROM participated
WHERE driver_id in
(SELECT driver_id from person
WHERE name= 'John Smith'));
```
- b.

```
UPDATE participated
SET damageamount = 3000
WHERE license = 'AABB2000'
AND report_number = 'AR2197'
```

3.15

- a.

```
SELECT distinct branch_name
FROM account
WHERE customer_city = "Brooklyn"
```
- b.

```
SELECT brnach_name, sum(amount)
FROM loan
GROUP BY branch_name
```
- c.

```
SELECT branch_name
FROM branch
WHERE assets>(SELECT MIN(assets)
FROM branch
WHERE branch_city = "Brooklyn")
```

4.2

- a.

```
SELECT id, name, count(course_id, section_id, year, semester)
AS 'Number of Sections'
FROM instruction natural left OUTER JOIN teaches
GROUP BY id, name;
```
- b.

```
SELECT id, name, (SELECT count(*)
FROM teaches B
WHERE B.id=F.id)
AS number_of_sections
From instructor
```

- c. SELECT id, name, section_taught
IF(section taught is in the instructor table)
FROM instructor
WHERE section_taught = 'Spring 2018';
- d. SELECT dept_name, COUNT(*)
AS instructor_in_class
FROM instructor
GROUP BY dept_name;

4.16

- a. SELECT s.id, t.course_id
FROM student AS s
Left JOIN takes AS t
ON t.id = s.id
WHERE course_id IS NULL

4.17

- a. SELECT s.id
FROM student as s, ADVISOR as a
WHERE s.id = a.s_id
And a.i_id is null