CS 775/875 Quiz 4

3/3/2021

Name

location(country, <u>cnumber</u>) airport(city, <u>ano</u>, cnumber, year) works(<u>worker</u>, <u>ano</u>)

1. (2.5) For the sample database instance, give the output of the following query:

```
SELECT worker, city, country FROM location, airport, works WHERE location.cnumber=airport.cnumber AND location.cnumber=100 AND worker='James';
```

2. (2.5) For the sample database instance, give the output of the following query:

```
SELECT distinct worker FROM works WHERE ano IN (SELECT ano FROM airport WHERE year = 1965);
```

3. (2.5) For the sample database instance, give the output of the following query:

```
SELECT DISTINCT W1.worker
FROM works W1, works W2
WHERE W1.ano > W2.ano AND W1.worker=W2.worker;
```

4. (2.5) The query lists

```
SELECT DISTINCT W1.worker
FROM works W1
WHERE W1.worker IN
  (SELECT W2.worker FROM works W2 WHERE W1.ano > W2.ano);
```

- (a) workers who work in more than one airport.
- (b) workers who work in the highest numbered airport.
- (c) workers who work in the lowest numbered airport.
- (d) all workers