Computer Science Tripos Part IA and IB

Student BGN…..…………………

Paper………………………………………………

Question number...……………………………….

How did you answer this question?

Timed	Open Book
Untimed	Closed Book

Questions

List all the questions you have answered for this paper here.

Computer Science Tripos Honour Code

1. We take it as a principle that maintaining the integrity and fairness of examinations should be regarded as a collaboration between students and the Department.
2. The students undertake that they will not help others in examinations and will not receive any help from others (students or non-students).
3. Students will actively contribute to ensuring that all students adhere to the code.
4. Students will keep to the conditions of the assessment and will accurately report those conditions when asked.
5. The Department will not make any attempt at remote invigilation of online examinations.

I undertake to respect the Computer Science Tripos honour code

Tick the box to confirm

1a)

```
select R.sid as sid, Q.uid as uid
    from R
    join Q on R.tid = Q.tid
;
```

b)

```
select S.A as A, U.C as C
    from S
    join R on S.sid = R.sid
    join Q on R.tid = Q.tid
    join U on Q.uid = U.uid
;
```

c) If some `sid` s recorded in `R` were not actually records of `S`, then the first query would return results from `sid` s which do not exist in `S`, but the second query would only return those which correspond to actual records in `S`. The same applies to those `uid` s recorded in `Q` which do not exist in `U`.

d) If some of the `A` - `C` pairs were the same for different `sid` - `uid` pairs, then the first query might return more, since the duplicated pairs would be ignored, but the distinct `sid` - `uid` pairs would still be returned.

e)

```
select Q.tid as tid, count(*) as total
from (
    select R.sid as sid, R.tid as tid, Q.uid as uid
    from R
    join Q on R.tid = Q.tid
)
;
```