Question 1

1)

- A(a1, a2)
- B(<u>a1</u>), a1 refer to A
- C(a1, c1), a1 refer to A
- D(d1,d2)
- E(e1, e2, bd1), a1 refer to BD
- F(f1,f2, a1), a1 refer to C
- BD(bd1, a1, d1)

2)

Question 2

NOT ON FINAL

Question 3

```
a)
SELECT c.pids FROM `Current` c JOIN Past p ON (c.tid = p.tid, c.pid = p.pid);
b)
SELECT * FROM
(SELECT tid, pid, `from`, `to` FROM past
SELECT tid, pid, `from`, current time FROM current) as union select
ORDER BY (tid, `from`);
SELECT DISTINCT pids FROM `Current` c JOIN Task t ON c.tid = t.tid WHERE t.difficulty >= 4;
SELECT tids FROM Task t WHERE (
   SELECT count(*) FROM Past p WHERE p.tid = t.tid
) > 10;
SELECT tids FROM Task t WHERE (
    SELECT count(*) FROM Past p WHERE p.tid = t.tid
    SELECT count(*) FROM Current c WHERE c.tid = t.tid
) > 10;
CREATE TRIGGER pointless
    BEFORE INSERT ON `Current`
    REFERENCING NEW as nrow
    FOR EACH ROW
        INSERT INTO Past VALUES (
```

```
SELECT *, current_time FROM `Current` c WHERE c.tid == nrow.tid
)
DELETE FROM `Current` c WHERE c.tid == nrow.tid;
```