# Question 1

* A(a1, a2)
* B(a1) , 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)

# Question 2

NOT ON FINAL

# Question 3

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| **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  **UNION**  **SELECT** tid, pid, `**from**`, **current\_time** **FROM** **current**) **as** union\_select  **ORDER** **BY** (tid,`**from**`);  **c)**  **SELECT** **DISTINCT** pids **FROM** `**Current**` **c** **JOIN** Task t **ON** **c**.tid = t.tid **WHERE** t.difficulty >= 4;  **d)**  **SELECT** tids **FROM** Task t **WHERE** (  **SELECT** **count**(\*) **FROM** Past p **WHERE** p.tid = t.tid  ) > 10;  **e)**  **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;  **f)**  **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; |