Tatu Bogdan

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| 1. Sign-Up |
| create sequence student\_course\_seq      start with 1      increment by 1      nocycle      nocache      noorder;  create table "SIGNUP" (      "ID" number(10, 0) default student\_course\_seq.nextval,      "STUDENT\_ID" varchar2(10),      "COURSE\_ID" number(4, 0),      "YEAR" date,      constraint "SIGNUP\_PK" primary key ("ID"),      constraint "SIGNUP\_FK\_STUDENT" foreign key ("STUDENT\_ID") references "STUDENT" ("ID") on delete cascade,      constraint "SIGNUP\_FK\_COURSE" foreign key ("COURSE\_ID") references "COURSE" ("ID") on delete cascade,      constraint "DUPLICATE\_SIGNUP" unique ("STUDENT\_ID", "COURSE\_ID", "YEAR")  ) |
| 1. Grade |
| create table "GRADE" (      "STUDENT\_ID" varchar2(10),      "COURSE\_ID" number(4, 0),      "DATE" date,      "ELP" char(1),      "VALUE" number(3,1),      constraint "GRADE\_FK\_STUDENT" foreign key ("STUDENT\_ID") references "STUDENT" ("ID") on delete cascade,      constraint "GRADE\_FK\_COURSE" foreign key ("COURSE\_ID") references "COURSE" ("ID") on delete cascade,      constraint "GRADE\_CK\_ELP" check ("ELP" in ('E', 'L', 'P')),      constraint "GRADE\_CK\_VALUE" check ("VALUE" between 1 and 10)  ) |
| 1. Insert into Department |
| insert into "DEPARTMENT"  values (1, 'Computers', 'AC')  insert into "DEPARTMENT"  values (2, 'Electronics', 'ETcTi') |
| 1. Insert into Teacher |
| insert into "TEACHER"  values ('P1.100.111', 'Ion', 'Stanescu', 4200.57, 2)  insert into "TEACHER"  values ('P1.105.254', 'Joe', 'Mayor', 3895.11, 1) |
| 1. Insert into Student |
| insert into "STUDENT"  values ('LM6-10.425', 'Ioan', 'Popescu', 3, 1)  insert into "STUDENT"  values ('LM2-12.891', 'Andrei', 'Floraru', 2, 1)  insert into "STUDENT"  values ('LM8-16.112', 'Ioan', 'Popescu', 1, 2)  insert into "STUDENT"  values ('LM8-18.112', 'Razvan', 'Bratu', 4, 2) |
| 1. Insert into Course |
| insert into "COURSE"  values (1, 'Electrice Engines', 'P1.100.111', 5)  insert into "COURSE"  values (2, 'Programming', 'P1.105.254', 4)  insert into "COURSE"  values (3, 'OOP', 'P1.105.254', 4) |
| 1. Insert into Sign-Up |
| insert into "SIGNUP" ("STUDENT\_ID", "COURSE\_ID", "YEAR")  values ('LM8-16.112', 2, TO\_DATE('2019', 'yyyy'))  insert into "SIGNUP" ("STUDENT\_ID", "COURSE\_ID", "YEAR")  values ('LM6-10.425', 1, TO\_DATE('2021', 'yyyy'))  insert into "SIGNUP" ("STUDENT\_ID", "COURSE\_ID", "YEAR")  values ('LM2-12.891', 3, TO\_DATE('2020', 'yyyy'))  insert into "SIGNUP" ("STUDENT\_ID", "COURSE\_ID", "YEAR")  values ('LM8-18.112', 1, TO\_DATE('2019', 'yyyy')) |
| 1. Insert into Grade |
| insert into "GRADE"  values ('LM8-16.112', 2, CURRENT\_DATE, 'E', 9)  insert into "GRADE"  values ('LM8-16.112', 2, CURRENT\_DATE, 'L', 7)  insert into "GRADE"  values ('LM8-16.112', 2, CURRENT\_DATE, 'L', 10)   * We can also get STUDENT.ID and/or COURSE.ID using joins:   select STUDENT.ID, COURSE.ID from STUDENT  inner join DEPARTMENT  on STUDENT.DEPARTMENT = DEPARTMENT.ID  inner join TEACHER  on TEACHER.DEPARTMENT = DEPARTMENT.ID  inner join COURSE  on COURSE.TEACHER\_ID = TEACHER.ID  where STUDENT.NAME = 'Ioan'  and STUDENT.SURNAME = 'Popescu'  and COURSE.NAME = 'Programming'  and use this to insert into SIGNUP or GRADE |
| 1. Delete from Student |
| delete from "STUDENT"  where "NAME" = 'Razvan'      and "SURNAME" = 'Bratu'      and "DEPARTMENT" = 2; |
| 1. Update Grades |
| update "GRADE"  set "VALUE" = "VALUE" + 1  where "VALUE" < 10      and "ELP" = 'L' |