Assignment 2:  
  
Student(SID , Saddress, age , SFName, SLName,DID)

Course(CID , CName, CDuration,CDescription,Topic-ID)

Stud\_Course(SID,CID , Grade)

Department(DID , DName,Ins-ID , Hiring-Date)

Instructor(Ins-ID , Ins-Name, Ins-Bonus,Ins-Address, Ins-Salary, Ins-hourRate, DID)

Ins\_Course(Ins-ID,CID , Evaluation)

Topic(Topic-ID , Topic-Name)

In a relation Take between Course and Student the relation is (M:M) so we don’t care about the participation and make a new table that contains the 2 P.K of the 2 tables and make them as a composite P.K (Stud\_Course)

We notice that there is an attribute on a relation Take(Grade) so we put this column in the table that contain 2 keys (Stud\_Course)

In a relation Located the relation is (1:M) and the Many is total so we take the P.K of the one (Department) and put it in the table (Student) as a F.K

In a relation manage between Department and instructor is (1 : 1 ) total from Department and partial from Instructor ,so we make 2 tables for each and take the P.K from the partial side (Instructor) , put it in Department as a F.K

We notice that there is an attribute on a relation mange so we put this column in the table that contain 2 keys (Department)

In a relation Contain between Department and instructor is (1 : M ) then we take the P.K in Department and put it in the table Instructor as a F.K

In a relation Teach between Course and Instructor it is (M:M) we make a new table contain the 2 keys for each table as a composite key

We notice that there is an attribute on a relation Teach so we put this column in the table that contain 2 keys (Ins\_Course)

In a relation Classify the relation is (1:M) and the many is total so we will take the P.K of 1 (Topic) and put it in the Many (Course)

A screenshot of a computer

Description automatically generated