

1.ENTITY

Here we have considered the following entities :

Department, Faculty, Student, Project and Hostel (which is specialised into Girls Hostel and Boys Hostel)

2.ATTRIBUTES

- Department(D_ID,D_Name)
- Faculty(F_ID,F_Name,F_Contact,F_Email,F_Desgn)
- Student(S_ID,S_Name,S_Contact,S_Gender)
- Project(P_ID,P_Name,P_Deadline)
- Hostel(H_ID,H_Name)

where D_ID,F_ID,S_ID,P_ID,H_ID are primary keys.

3.Relationships and Cardinality

- Department and Faculty has 'has' relationship with cardinality of 1:m
- Department and Student has 'consists_of' relationship with cardinality of 1:n
- Faculty and student has 'teaches' relationship with cardinality of 1:p
- Student and Project has 'works_on' relationship with cardinality of 1:r
- Student and Hostel has 'stays_in' relationship with cardinality of q:1

4.Assumptions and Justifications

- S_Name consists of S_FName,S_LName hence a composite attribute.
- F_Name consists of F_FName,F_LName hence a composite attribute.
- S_Contact and F_Contact is a multivalued attribute as there can be more than 1 contact nos
- F_Email is a multivalued attribute as there can be more than 1 email.
- Hostel has a specialisation via is-a relationship which consists of girls_hostel and boys_hostel