

FINAL E-R Diagram Document

We have made following changes from our previous E-R Diagram Document:-

Added two new entities – Room Date and StudentPackage

For one student, their could be multiple guests arriving, so one to many relationship is established between **Student** and **Visitor**

Removed all Foreign Keys from **Student** Table and kept 2 new Foreign Keys RoomDateID and StudentPackageID

Removed all Foreign Keys from **Employee** Table

Updated **Catering package** with new Foreign Key CateringID

As student will be allotted a room to stay and rooms are inside hostel, the student hostel relationship is removed. And student, room relationship is kept

As feedback will be provided by students to the management, their feedback dates needs to be recorded, so new Date attribute along with ManagementID as Foreign Key is added to the **Feedback** table

Two new attributes are added in **Billing** table i.e. Category and Duration. Category is used to provide information whether student does a billing for rooms or catering services and Duration is used for total period the student can use these services

CateringID is newly added and used as a Foreign Key in **Management** table

For **Hostel Manager** table, HostelID as a foreign key is removed and replaced with two new Foreign keys ManagementID and EmployeeID

For **Room** table, StudentID is removed

Room Date table is introduced between Student and Room table, as Student will be allotted a Room to stay for specific duration of time

Management is responsible for providing Catering services to students, hence **Management** and **Catering** have a one to one relationship

One Catering can have many Employees, so one to many relationship is established between **Catering** and **Employee**

In **Employee** table, Foreign key CateringID is removed

In **Catering Package**, new Foreign key CateringID is added and one to many relationship is established between Employee and Catering Package

Student Package table is introduced between Student and Catering Package with Foreign Keys StudentID, PackageID and Date with one-to-many relationships

