DBMS Mini Project

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ER Diagrams:

hostel

Total specialization rule

Overlapping rule will be applied because either hostel will be for boys or for girls and it can be both at the same time.

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Boys_hostel

Nob_of_Rooms
No_of_Bstudent
annual_expenses
location
annual_eletricityBill

girls_hostel

No_of_rooms
annual_expenses
No_of_Gstudent
Location
Annual_electricityBillt

has

Has

has

works at

live in

student

student_ID
Student_name
Father_name
department
Address
Room_ID(FK)
cell_n0
Age
DOB

stay at

Assign to

ROOMS

Room_ID
capacity
No_of_bed
furniture_ID(FK)

Mess_employee

Emp_ID
Emp_name
Address
(street,state,country)
salary
cell_No

pay

has

manages

furniture

furniture_id
study_chair
study_table

visitor

visitor_ID
student_ID(FK)
visitor_name
time_in
time_out
date

Fee

Fee_month
Fee_status
student_ID(FK)

Fee_month is a partial identifier

Weak Entity
(fee can only exist when student exist)

Mess

Tottal_capacity
monthly_expenses
Mess_timing(close
and start)
mess_expenditure

hostel

hostel_ID(PK)	no_of_student	location	annual_expence	no_of_rooms

boys_hostel

Bhostel_ID(PK)	no_of_bstudent	location	annual_expense	No_of_rooms

girls_hostel

Ghostel_ID(PK)	no_of_gstudent	location	annual_expense	no_of_room

student

stu_id(pk)	name	f.name	department	cell no	Room_id(fk)	Age	DOB	bhostel_IDFK)

Rooms

Room_Id(pk)	capacity	No_of_bed	Bhostel_id(FK)

bhostel=boys hostel

Mess_employee

Emp_id(PK)	emp_name	street	state	country	salary	Cell_no	bhostel_ID(FK)

Mess

total_capacity	monthly_expences	Mess_timing	mess_expenditure

furniture

furniture_id(PK)	study_table	study_chair

Fee

Fee_month(PK)	Fee_status	student_ID(FK)

visitor

visitor_id	Student_id(FK)	time_in	time_out	date