

Hostel Management System.

Entities and Attributes

| Serial Number | Entity Name | Primary key | Foreign key | Non key attributes |
|---------------|------------------------------------|-------------------|--|--|
| 1 | Hall | Hall_id integer | | Name varchar(20) no_of_employees integer no_of_hostels integer |
| 2 | Hostel | hostel_id integer | | Name varchar(20) capacity integer no_of_rooms integer no_of_employees integer mess_contractor integer mess_capacity |
| 3 | Student | Sid integer | | Name varchar(20) phone integer city varchar(20) state varchar(20) course varchar(10) dept varchar(20) year integer |
| 4 | Employee | Eid integer | | Name varchar(20) designation varchar(20) salary float |
| 5 | Visitors | | | Name varchar(20) entry_time date exit_time date |
| 6 | managed_by (employee-hall) | | Eid integer hid integer | |
| 7 | belongs_to (hostel-hall) | | Hid integer hall_id integer | |
| 8 | Resides_in (student-hostel) | | Sid integer hid integer | room_no integer |
| 9 | controlled_by (employee-hostel) | | Eid integer, hid integer | |
| 10 | Visits (visitor-student) | | v_name varchar(20) entry_time date sid integer | |

Users and Privileges

Level 1:

- View the entire top level information of database(all tables)
- Modify the present account
- Create halls and hall level users
- Modify hall information
- Delete hall level users
- Reset hall level user password

Level 2:

- View entire top level information that come under selected hall
- Modify the present account
- Create Hostels and hostel level users
- Delete hostel level users
- Reset hostel level user level password
- Modify hostel information
- Add and modify student information except room number

Level 3:

- View entire top level information that come under selected hostel
- Modify present account
- Add room number allocated to students
- Visitor information entry

