



## **Database Project**

### **Hostel Management System Code**

#### **Group Members:**

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## Creating Tables In Oracles

```
create table Admin (  
  A_ID number(4),  
  Name varchar(20) Not null,  
  password varchar(20) not null,  
  A_CNIC number(13),  
  phone_no number(11),  
  constraint A_id_pk primary key(A_id));
```

```
create table hostel (  
  hostel_ID number(4),  
  name varchar2(20) not null,  
  type varchar2(10) not null,  
  floor number(2) not null,  
  rooms number(3) not null,  
  location varchar2(20),  
  constraint h_id_pk primary key(hostel_id));
```

```
create table room (  
  roomNO number(4),  
  hostel_id number(4),  
  floorNO number(2) not null,  
  capacity number(2) not null,  
  assests varchar2(20),  
  constraint room_pk primary key(roomNo),  
  constraint room_hostel_fk foreign key(hostel_id) references hostel(hostel_id));
```

```
create table student(  
    s_id number(4) primary key,  
    name varchar2(20) not null,  
    date_of_birth date,  
    CNIC number(13) not null,  
    G_id number(4),  
    semester number(2),  
    roomNo number(3),  
    constraint st_room_fk foreign key (roomNO) references room(roomNO));
```

```
create table guardian(  
    G_id number(4) primary key,  
    G_name varchar2(20),  
    G_CNIC number(13) not null,  
    phoneNo number(13) not null,  
    stud_id number(4),  
    constraint G_fk foreign key(stud_id) references student(s_id));
```

```
create table shiftRoom (  
    S_id number(4),  
    C_roomNo number(3) not null,  
    S_roomNo number(3) not null,  
    status varchar2(10) not null,  
    constraint shift_pk primary key(s_id),  
    constraint shift_fk foreign key(s_id) references student(s_id));
```

```
alter table student  
add constraint st_g_fk foreign key(g_id) references guardian(g_id);
```

```
create table hosteBill(  
    hostel_id number(4) primary key,  
    utilityBills number(10),  
    additional_charges number(10),  
    maintenance number(10),  
    A_id number(4),  
    constraint hbill_fk foreign key(A_id) references Admin(A_id));
```

```
create table visitors(  
    NAME varchar2(20),  
    S_id number(4) foreign key references student(s_id),  
    date date not null,  
    CNIC number(13) primary key,  
    A_id number(4) foreign key references admin(a_id),  
    time time not null,  
    relation varchar2(20));
```

```
create table stud_bill(  
    S_id number(4) primary key,  
    date date,  
    charges number(10),  
    type varchar2(20),  
    totalBill number(10),  
    A_id number(4),  
    constraint Sbill_admin_fk foreign key(A_id) references Admin(A_id),  
    constraint Sbill_std_fk foreign key(s_id) references student(s_id));
```