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PANEL:-D

ROLL NO. :- PD33 (D2)

Assignment - 4

Problem statement 1:-

Create a database which consist of the following tables with appropriate constraints like primary key, foreign key, check constrains, not null etc.

- Hotel (HotelNo, Name, City) HotelNo is the primary key
- Room (RoomNo, HotelNo, Type, Price)
- Booking (HotelNo, GuestNo, DateFrom, DateTo, RoomNo)
- Guest (GuestNo, GuestName, GuestAddress) GuestNo is primary key

Solve the following queries

1. How many hotels are there?

2. List the price and type of all rooms at the Grosvenor Hotel.

```
MySQL | localhost:33060+ ssl assn2 SQL > select r.price ,r.type from room r , hotels h where r.hotelno = h.hotelno and h.hotelname = 'Grosvenor';

| price | type |

| 50000 | norm |

| 50000 | norm |

| 1 row in set (0.0439 sec)
```

3. List the number of rooms in each hotel.

4. Update the price of all rooms by 5%.

5. List full details of all hotels in London.

```
        MySQL
        localhost:33060+ ssl
        assn2
        SQL
        > select * from hotels h , room r,booking b where r.hotelno=h.hotelno and b.hotelno = h.hotelno;

        | hotelno | hotelname | city | roomno | type | price | hotelno | roomno | guestno | hotelno | datefrom | dateto |
        |

        | 1 | jw marriott | pune | 1 | delu | 26250 | 1 | 1 | 1 | 1 | 1 | 2020-01-09 | 2020-01-12 |
        |

        | 2 | Grosvenor | London | 2 | norm | 52500 | 2 | 2 | 2 | 2 | 2 | 2020-03-04 | 2020-04-19 |
        |

        | 3 | tajhotel | Mumbai | 3 | Doub | 10500 | 3 | 3 | 3 | 3 | 2020-12-23 | 2020-12-27 |

        3 rows in set (0.0375 sec)
```

6. What is the average price of a room?

```
MySQL localhost:33060+ ssl assn2 SQL > select avg(price) from room group by(hotelno);
+-----+
| avg(price) |
+-----+
| 19625 |
| 52500 |
| 10500 |
+-----+
3 rows in set (0.0996 sec)
```

7. List all guests currently staying at the Grosvenor Hotel.

```
| BySQL localhost:33060+ ssl assn2 SQL > select g.guestno , g.guestname from guest g ,hotels h ,booking b where b.hotelno = h.hotelno and b.guestno = g.guestno and h.hotelname='Grosvenor';

| guestno | guestname |

| 2 | Raj |

| row in set (0.0730 sec)
```

8. List the number of rooms in each hotel in London.

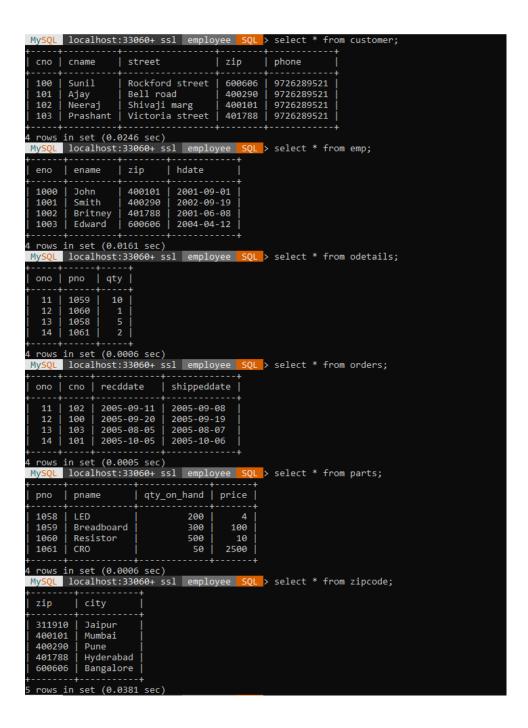
9. Create one view on above database and guery it.

```
MySQL localhost:330604 ssl assn2 SQL > create view roomdetails as select roomno , type , price from room;
Query OK. 0 rows affected (0.2716 sec)
| localhost:330604 ssl assn2 SQL > select * from roomdetails;
| roomno | type | price |
| roomno | type | price |
| 1 | delu | 26250 |
| 2 | norm | 52500 |
| 3 | Doub | 10500 |
| 4 | Delu | 13000 |
| 4 rows in set (0.0870 sec)
```

Problem statement 2:-

Create a database which consist of the following tables with appropriate constraints like primary key, foreign key, check constrains, not null etc.

- emp (eno,ename,Zip,hdate)
- parts(pno,pname,qty_on_hand, price)
- customer(cno,cname,street,Zip,phone)
- order(ono,cno,receivedate,shippeddate)
- odetails(ono,pno,qty)
- zipcode(Zip,city)



Solve the following queries

1. get pno, pname values of parts that are priced less than \$20.00

2. get the ono & cname values of customer whose orders have not yet been shipped

3. get the cname values of customer who have placed order with emp living in 'Pune' or 'mumbai'

```
MySQL localhost:33060+ ssl employee SQL > select c.cname from customer c , emp e, zipcode z
-> where z.zip = c.zip and e.zip = z.zip and (z.city = 'Pune' or z.city = 'Mumbai');
+-----+
| Ajay |
| Neeraj |
+-----+
2 rows in set (0.1699 sec)
```

4. get the cities in which customer or emp are located

5. get the total quantity of part 1060 that has been ordered

```
        MySQL
        localhost:33060+ ssl
        employee
        SQL
        > select sum(qty) from odetails where pno = 1060;

        +-----+
        | sum(qty) |

        +-----+
        | 1 |

        +-----+
        1 row in set (0.0804 sec)
```

6. get the total no of customer

```
Mysol localhost:33000f ssl employee SQL > select count(cno) from customer;
| count(cno) |
```

7. Create one view