

SCS2209 – Database 11

SQL Basics

1. CREATE DATABASE hotelBooking;
2. CREATE TABLE Hotel(

```
    hID int,  
    Name varchar(20),  
    Address varchar(30),  
    City varchar(20),  
    ContactNumber varchar(15) ,  
    PRIMARY KEY(hID)  
);
```

```
CREATE TABLE Guest(  
    gID int,  
    firstName varchar(20),  
    lastName varchar(20),  
    Gender varchar(1),  
    Age int (2),  
    Address varchar(30),  
    City varchar(20),  
    ContactNumber varchar(10),  
    PRIMARY KEY(gID)  
);
```

```
CREATE TABLE Room(  
    RoomNo int,  
    hID int,  
    RoomType varchar(10),  
    Price varchar(20),  
    PRIMARY KEY(RoomNo),  
    FOREIGN KEY(hID) REFERENCES hotel(hID)  
);
```

```
CREATE TABLE Booking(  
    RoomNo int,
```

```

gID int,
hID int,
BookingId int,
FromDate date,
ToDate date,
payMethod varchar(10),
PRIMARY KEY (hID, RoomNo, gID, FromDate),
FOREIGN KEY (gID) REFERENCES guest(gID),
FOREIGN KEY (hID) REFERENCES hotel(hID),
FOREIGN KEY (RoomNo) REFERENCES room(RoomNo)
);

```

3. INSERT INTO Hotel (Hid, Name, Address, City, ContactNumber)
VALUES (1, "Shrangila", "Galle Road, Colombo", "Colombo", "0892678156");

```

INSERT INTO Room (hId, RoomNo, RoomType, Price)
VALUES (1, 27, "Double", "50000");

```

```

INSERT INTO Guest (gId, firstName, lastName, Age, Address, City, ContactNumber)
VALUES (1, "Kamal", "Perera", 30, "Galle Road, Galle", "Galle", "0433378156");

```

```

INSERT INTO Booking (gId, hID, RoomNo, BookingId, FromDate, ToDate,
PaymentMethod)
VALUES (1, 1, 27, 30, 1, 2018-2-08, 2018-3-02, "Cash");

```

4. SELECT* FROM Hotel;
SELECT* FROM Guest;
SELECT* FROM Room;
SELECT *from Booking;
5. SELECT * from Hotel WHERE City="Colombo";
6. SELECT * FROM Guest, Booking WHERE Guest.Gender="F" AND Guest.gId=
Booking.gId
7. SELECT firstName,lastName,Address, ContactNumber FROM Guest WHERE Age > =
65
8. SELECT Name,Address FROM Hotel WHERE City="Colombo" OR City="Pandura"
OR City="Kalutara"
9. SELECT * FROM Booking WHERE FromDate BETWEEN "1 Jnuary 2020"AND "1
February 2020"

10. SELECT * FROM Guest WHERE City="Dambulla" ORDER BY gId ASC LIMIT 5
11. SELECT * FROM Guest WHERE City="Wadduwa" ORDER BY DESC LIMIT 1
12. SELECT AVG(RoomType) FROM Room WHERE RoomType="Double"
13. SELECT SUM(Price) FROM Room, Booking WHERE RoomType="Single" AND Booking.FromDate="30 AUGUST 2020" AND Room.RoomNo= Booking.RoomNo
14. SELECT COUNT(hId) FROM Hotel WHERE City="Galle"
15. SELECT * FROM Guest WHERE firstName LIKE "A%"
16. SELECT * FROM Hotel WHERE City LIKE "_o%"
17. SELECT * FROM Hotel WHERE Name NOT LIKE "%a"
18. SELECT Guest.gId ,Guest.firstName ,Guest.lastName ,Guest.Age ,Guest.Gender ,Guest.Address,Guest.City ,Guest.ContactNumber FROM Guest, Booking WHERE Booking.PaymentMethod= "cash" AND Guest.gId =Booking.gId
19. SELECT Guest.firstName,Guest.lastName,Guest.Address,Guest.ContactNumber FROM Guest,Booking WHERE Booking.FromDate BETWEEN "1 st September 2020" AND "30 th November 2020" AND Guest.gId= Booking.gId
20. SELECT Hotel.hId,COUNT(Booking.hId) FROM Hotel,Guest,Room,Booking

WHERE Hotel.hId=Booking.hId AND Guest.gId=Booking.gId AND Room.RoomNo=Booking.RoomNo GROUP BY hId
21. SELECT Name,Type,COUNT(Type) GROUP BY Name, Type
22. SELECT Guest.gId ,Guest.firstName ,Guest.lastName ,Guest.Age ,Guest.Gender ,Guest.Address,Guest.City ,Guest.ContactNumber FROM Guest,Hotel, Booking WHERE Hotel.Name= 'Cinnamon Red hotel' AND City= 'Colombo' AND Guest.gId=Booking.gId AND Booking.hId=Hotel.hId
ORDER BY DESC LIMIT 1
23. SELECT Guest.gId ,Guest.firstName ,Guest.lastName ,Guest.Address,Guest.City ,Guest.ContactNumber FROM Guest,Hotel, Booking WHERE Hotel.Name= 'Mount Lavinia Hotel' AND City= 'Colombo' AND Room.RoomType="King rooms" AND Guest.gId=Booking.gId AND Booking.hId=Hotel

24. SELECT Guest.gId ,Guest.firstName ,Guest.lastName ,Guest.Address,Guest.City
 ,Guest.ContactNumber FROM Guest,Hotel,Booking
 WHERE Hotel.City LIKE "%e" AND Guest.gId=Booking.gId AND
 Hotel.hId=Booking.hId

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