SCS2209 Database II

## **Tutorial - 01**

1. CREATE DATABASE hotelBooking
2. CREATE TABLE hotel(

hid INT(255) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR(20),

Address VARCHAR(50),

City VARCHAR(10),

ContactNumber(12)

);

CREATE TABLE room(

roomId VARCHAR(10) PRIMARY KEY,

hId VARCHAR(255),

roomNo VARCHAR(10),

roomType VARCHAR(10),

Price FLOAT NOT NULL,

FOREIGN KEY (hId) REFERENCES hotel(hId)

);

CREATE TABLE guest(

gId INT(255) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

firstname VARCHAR(30),

lastname VARCHAR(30),

Age INT(6),

Gender VARCHAR(50),

Address VARCHAR(50),

City VARCHAR(50),

ContactNumber(12)

);

CREATE TABALE booking(

gId VARCHAR(255),

roomId VARCHAR(255),

FromDate DATE NOT NULL,

ToDate DATE NOT NULL,

PaymentMethod VARCHAR(255) NOT NULL,

PRIMARY KEY(gId, hId, RoomNo, FromDate),

FOREIGN KEY(gId),

FOREIGN KEY(hId) REFERENCES hotel(hId),

FOREIGN KEY(RoomNo) REFERENCES room(RoomNO)

);

1. INSERT INTO hotel VALUES

(1, ‘Galadari’ , ‘Galle Road’ , ‘Colombo 01’ , 0112345654),

(2, ‘Hilton , ‘Duplication road’ , ‘Colombo 02’ , 0112098766),

(3, ‘Taj , ‘Galle face’ , ‘Colombo 02’ , 0112788756),

(4, ‘Shangrila , ‘main road’ , ‘Hambanthota’ , 0113749275)

INSERT INTO guest VALUES

(1, ‘Kamal’ , ‘Silva’ , 30 , ‘m’ , ‘road01’ , ‘cmb1’ , 1111111111)

(1, ‘Amali’ , ‘Perera’ , 30 , ‘f’ , ‘road02’ , ‘cmb2’ , 2222222222)

(1, ‘Siripala , ‘Sirisena , 30 , ‘m’ , ‘road03’ , ‘cmb3’ , 3333333333)

(1, ‘Kanthi’ , ‘Fernando’ , 30 , ‘f’ , ‘road04’ , ‘cmb4’ , 4444444444)

INSERT INTO room VALUES

(1,2,’Single’,1200)

(2,5,Twin,1200)

(3,2,’Trible’,10000)

(4,1,’Single’,2000)

INSERT INTO booking VALUES

(1, 1 , 4 , 2020-10-19 , 2020-10-21 , ‘Online’)

(3, 1 , 3 , 2020-11-02 , 2020-11-05 , ‘Online’)

(1, 3 , 3 , 2020-10-16 , 2020-11-21 , ‘Cash’)

(2, 1 , 4 , 2020-12-19 , 2020-12-21 , ‘Online’)

1. SELECT \* FROM hotel;

SELECT \* FROM room;

SELECT \* FROM guest;

SELECT \* FROM booking;

1. SELECT \*FROM hotel WHERE City=’Colombo’
2. SELECT \* FROM booking

INNER JOIN guest

NO booking.gId = guest.gId. WHERE guest.Gender = ‘f’

1. SELECT firstname , lastname , Address , ContactNumber FROM guest WHERE Age>65
2. SELECT Name, Address FROM hotel WHERE City IN (‘Colombo’,’Panadura’,’Kalutara’)
3. SELECT \*FROM booking WHERE MONTH(FromDate) = 1 AND YEAR(FromDate) =2020
4. SELECT \*FROM ‘guest’ WHERE City = ‘Dambulla’ LIMIT 5
5. SELECT\* FROM guest WHERE City = ‘Wadduwa’ ORDER BY Age DESC LIMIT 1
6. SELECT\* FROM AS ‘Average Room Price’ FROM room WHERE roomType =’Double’
7. SELECT SUM(Price) FROM room WHERE roomType = ‘Single’
8. SELECT COUNT(hId) hotel WHERE City = ‘Galle’
9. SELECT\* FROM ‘guest’ WHERE firstname LIKE ‘A%’
10. SELECT\* FROM hotel WHERE City LIKE ‘\_o%’
11. SELECT\* FROM hotel WHERE Name NOT LIKE ‘%a’
12. 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

1. 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

1. SELECT hotel.hId COUNT(booking.hId)

FROM hotel , guest , room , booking

WHERE booking.hId = booking.hId AND guest.gId = booking.gId AND room.roomNo = booking.roomNo GROUP BY hId

1. SELECT Name , Type COUNT(Type) GROUP BY Name , Type
2. SELECT guest.gId , guest.firstname , guest.lastname , guest.Age , guest.Gender , guest.Address , 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

1. SELECT guest.gId , guest.firstname , guest.lastname , guest.Address , guest.City , guest.ContactNumber

FROM guest.hotel , booking

WHERE hotel.Name = ‘Mount Lavania Hotel’ AND City = ‘Colombo’ AND room.roomType = ‘King rooms’ AND guest.gId = booking.gId AND booking.hId = hotel.gId

1. SELECT guest.gId , guest.firstname , guest.lastname , guest.Address , guest.City , guest.ContatNumber

FROM guest , hotel , booking

WHERE hotel.City LIKE ‘%e’ AND guest.gId = booking.gId AND hotel.hId = booking.hId