

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)
);

3. 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,'Triple',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')

4. SELECT * FROM hotel;

SELECT * FROM room;

SELECT * FROM guest;

SELECT * FROM booking;

5. SELECT *FROM hotel WHERE City='Colombo'

6. SELECT * FROM booking

INNER JOIN guest

ON booking.gId = guest.gId. WHERE guest.Gender = 'f'

7. SELECT firstname , lastname , Address , ContactNumber FROM guest WHERE Age>65

8. SELECT Name, Address FROM hotel WHERE City IN ('Colombo','Panadura','Kalutara')

9. SELECT *FROM booking WHERE MONTH(FromDate) = 1 AND YEAR(FromDate) =2020

10. SELECT *FROM 'guest' WHERE City = 'Dambulla' LIMIT 5

11. SELECT* FROM guest WHERE City = 'Wadduwa' ORDER BY Age DESC LIMIT 1

12. SELECT* FROM AS 'Average Room Price' FROM room WHERE roomType ='Double'

13. SELECT SUM(Price) FROM room WHERE roomType = 'Single'

14. SELECT COUNT(hId) 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 booking.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.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 Lavana Hotel' AND City = 'Colombo' AND room.roomType =
'King rooms' AND guest.gId = booking.gId AND booking.hId = hotel.gId
24. 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