**-- COMP 2714**

**-- SET 2A**

**-- Assignment Asn01**

**-- Qin, Chris A00944299 email: cqin8@my.bcit.ca**

**-- Fong, Joe A01054383 email: jfong80@my.bcit.ca**

**SQL>**

**SQL> ALTER SESSION SET NLS\_DATE\_FORMAT='YYYY-MM-DD';**

**Session altered.**

**SQL>**

**SQL> SELECT SYSDATE**

**2 FROM DUAL;**

**SYSDATE**

**----------**

**2019-01-11**

**SQL>**

**SQL> -- Question 1**

**SQL> DROP TABLE OldBooking;**

**Table dropped.**

**SQL> DROP TABLE Booking;**

**Table dropped.**

**SQL> DROP TABLE Room;**

**Table dropped.**

**SQL> DROP TABLE Guest;**

**Table dropped.**

**SQL> DROP TABLE Hotel;**

**Table dropped.**

**SQL>**

**SQL> -- Question 2 (Question from 7.10)**

**SQL> CREATE TABLE Hotel**

**2 (hotelNo DECIMAL(3) NOT NULL**

**3 ,hotelName VARCHAR2(30) NOT NULL**

**4 ,city VARCHAR2(30) NOT NULL**

**5 ,CONSTRAINT PK\_Hotel**

**6 PRIMARY KEY (hotelNo)**

**7 );**

**Table created.**

**SQL>**

**SQL> CREATE TABLE Room**

**2 (roomNo DECIMAL(3) DEFAULT 1 NOT NULL**

**3 ,hotelNo DECIMAL(3) NOT NULL**

**4 ,type VARCHAR2(10) NOT NULL**

**5 ,price DECIMAL(5, 2) DEFAULT 10.00 NOT NULL**

**6 ,CONSTRAINT roomNumber**

**7 CHECK(roomNo BETWEEN 1 AND 100)**

**8 ,CONSTRAINT typeOfRoom**

**9 CHECK(type IN ('SINGLE', 'DOUBLE', 'FAMILY'))**

**10 ,CONSTRAINT priceOfRoom**

**11 CHECK(price BETWEEN 10.00 AND 100.00)**

**12 ,CONSTRAINT PK\_Room**

**13 PRIMARY KEY (roomNo, hotelNo)**

**14 ,CONSTRAINT FK\_hotelNo**

**15 FOREIGN KEY (hotelNo)**

**16 REFERENCES Hotel (hotelNo)**

**17 );**

**Table created.**

**SQL>**

**SQL> -- Question 3 (Question 7.11)**

**SQL> CREATE TABLE Guest**

**2 (guestNo VARCHAR2(10) NOT NULL**

**3 ,guestName VARCHAR2(30) NOT NULL**

**4 ,guestAddress VARCHAR2(50) NOT NULL**

**5 ,CONSTRAINT PK\_Guest**

**6 PRIMARY KEY (guestNo)**

**7 );**

**Table created.**

**SQL>**

**SQL> CREATE TABLE Booking**

**2 (hotelNo DECIMAL(3) NOT NULL**

**3 ,guestNo VARCHAR2(10) NOT NULL**

**4 ,dateFrom DATE NOT NULL**

**5 ,dateTo DATE NOT NULL**

**6 ,roomNo DECIMAL(3) DEFAULT 1 NOT NULL**

**7 ,CONSTRAINT PK\_Booking**

**8 PRIMARY KEY (hotelNo, guestNo, dateFrom)**

**9 ,CONSTRAINT FK\_HotelRoomNo**

**10 FOREIGN KEY (roomNo, hotelNo)**

**11 REFERENCES Room (roomNo, hotelNo)**

**12 ,CONSTRAINT FK\_GuestNo**

**13 FOREIGN KEY (guestNo)**

**14 REFERENCES Guest (guestNo)**

**15 );**

**Table created.**

**SQL>**

**SQL> -- Question 4**

**SQL> INSERT INTO Hotel**

**2 (hotelNo, hotelName, city)**

**3 VALUES**

**4 (145, '4 Seasons Hotel', 'Richmond');**

**1 row created.**

**SQL> INSERT INTO Hotel**

**2 (hotelNo, hotelName, city)**

**3 VALUES**

**4 (110, 'Hyatt Downtown', 'Vancouver');**

**1 row created.**

**SQL> INSERT INTO Hotel**

**2 (hotelNo, hotelName, city)**

**3 VALUES**

**4 (93, 'Civic HighRise Hotel', 'Surrey');**

**1 row created.**

**SQL>**

**SQL> INSERT INTO Room**

**2 (roomNo, hotelNo, type, price)**

**3 VALUES**

**4 (14, 145, 'DOUBLE', 80.00);**

**1 row created.**

**SQL> INSERT INTO Room**

**2 (roomNo, hotelNo, type, price)**

**3 VALUES**

**4 (96, 110, 'SINGLE', 40.00);**

**1 row created.**

**SQL> INSERT INTO Room**

**2 (roomNo, hotelNo, type, price)**

**3 VALUES**

**4 (50, 93, 'FAMILY', 100.00);**

**1 row created.**

**SQL>**

**SQL> INSERT INTO Guest**

**2 (guestNo, guestName, guestAddress)**

**3 VALUES**

**4 ('G09124812', 'John Smith', '123 Sunny Drive');**

**1 row created.**

**SQL> INSERT INTO Guest**

**2 (guestNo, guestName, guestAddress)**

**3 VALUES**

**4 ('G02118234', 'Mary Poppins', '185 Madeup Street');**

**1 row created.**

**SQL> INSERT INTO Guest**

**2 (guestNo, guestName, guestAddress)**

**3 VALUES**

**4 ('G05677307', 'Chris Qinner', '666 SomeEvil Street');**

**1 row created.**

**SQL>**

**SQL> INSERT INTO Booking**

**2 (hotelNo, guestNo, dateFrom, dateTo, roomNo)**

**3 VALUES**

**4 (145, 'G09124812', DATE'2019-01-23', DATE'2019-01-27', 14);**

**1 row created.**

**SQL> INSERT INTO Booking**

**2 (hotelNo, guestNo, dateFrom, dateTo, roomNo)**

**3 VALUES**

**4 (110, 'G02118234', DATE'2019-07-01', DATE'2019-08-01', 96);**

**1 row created.**

**SQL> INSERT INTO Booking**

**2 (hotelNo, guestNo, dateFrom, dateTo, roomNo)**

**3 VALUES**

**4 (93, 'G05677307', DATE'2019-03-18', DATE'2019-03-29', 50);**

**1 row created.**

**SQL> COMMIT;**

**Commit complete.**

**SQL>**

**SQL> -- Question 5.a**

**SQL> ALTER TABLE Room**

**2 DROP CONSTRAINT typeOfRoom;**

**Table altered.**

**SQL> ALTER TABLE Room**

**2 ADD CONSTRAINT typeOfRoom**

**3 CHECK(type IN ('SINGLE', 'DOUBLE', 'FAMILY', 'DELUXE'));**

**Table altered.**

**SQL>**

**SQL> -- Question 5.b**

**SQL> ALTER TABLE Room**

**2 ADD discount DECIMAL(4,2) DEFAULT 0 NOT NULL**

**3 CONSTRAINT discountedAmount**

**4 CHECK(discount BETWEEN 0 AND 30.00);**

**Table altered.**

**SQL>**

**SQL> -- Question 6.a**

**SQL> UPDATE Room**

**2 SET price = price \* 1.15**

**3 WHERE type = 'DOUBLE';**

**1 row updated.**

**SQL>**

**SQL> -- Question 6.b**

**SQL> UPDATE Booking**

**2 SET dateFrom = DATE'2019-03-15'**

**3 WHERE guestNo = 'G05677307';**

**1 row updated.**

**SQL> UPDATE Booking**

**2 SET dateTo = DATE'2019-03-31'**

**3 WHERE guestNo = 'G05677307';**

**1 row updated.**

**SQL>**

**SQL> -- Question 7.a**

**SQL> CREATE TABLE OldBooking**

**2 (hotelNo DECIMAL(3) NOT NULL**

**3 ,guestNo VARCHAR2(10) NOT NULL**

**4 ,dateFrom DATE NOT NULL**

**5 ,dateTo DATE NOT NULL**

**6 ,roomNo DECIMAL(3) DEFAULT 1 NOT NULL**

**7 );**

**Table created.**

**SQL>**

**SQL> -- Question 7.b**

**SQL> INSERT INTO OldBooking**

**2 SELECT \***

**3 FROM Booking**

**4 WHERE dateTo < DATE'2019-01-10';**

**0 rows created.**

**SQL>**

**SQL> -- Question 7.c**

**SQL> DELETE FROM Booking**

**2 WHERE dateTo < DATE'2019-01-10';**

**0 rows deleted.**

**SQL>**

**SQL> SPOOL OFF**