DM - Pretest

- 1. Create a database named **dbPretest**
- 2. Create the following tables in Database dbPretest

a. Table "tbRoom"

Field name	Data type	Constraint description
RoomNo	int	Primary key
Туре	Varchar(20)	Only accept values : "VIP", "Double" or "Single"
UnitPrice	Money	0 <= price < 1000

Define Check constraints on field Type, UnitPrice as column description

b. Table "tbBooking"

Field name	Data type	Constraint description
BookingNo	int	
RoomNo	int	Foreign key
TouristName	Varchar(20)	Not null
DateFrom	DateTime	
DateTo	DateTime	dateTo must be greater than dateFrom

Define a Composite Primary key (**BookingNo, RoomNo**) on Booking table.

c. Insert some records into tables "tbRoom" and "tbBooking":

RoomNo	Type	Unitprice	
101	Single	100	
102	Single	100	
103	Double	250	
201	Double	250	
202	Double	300	
203	Single	150	
301	VIP	900	

BookingNo	RoomNo	TouristName	DateFrom	DateTo
1	101	Julia	12/11/2014	14/11/2014
1	103	Julia	12/12/2014	13/12/2014
2	301	Bill	10/01/2015	14/01/2015
3	201	Ana	12/01/2015	14/01/2015
3	202	Ana	12/01/2015	14/01/2015

- 3. Create a clustered index ixName on column *TouristName* of table tbBooking
- 4. Create a non-clustered index **ixType** on column *Type* of table **tbRoom**
- 5. Create a view **vwBooking** to see the information about bookings in year 2014 which contain the following columns:

BookingNo, TouristName, RoomNo,Type, UnitPrice, DateFrom, DateTo. The definition of view must be encrypted.

- 6. Create a stored procedure name **uspPriceDecrease** will down the unit price of double rooms a given amount (input parameter). If non value given, display a list of rooms, sorted by price.
- 7. Create a stored procedure name **uspSpecificPriceIncrease** will increment the unit price of a given room (input parameter) by a given amount (input parameter) and return the number of rooms (output parameter) which have room rate above 250.

- 8. Create a trigger named tgBookingRoom that allows one booking order having 3 rooms maximum.
- 9. Create a trigger named **tgRoomUpdate** that doing the following (using try-catch structure): If new price is equal to 0 and this room has not existed in **tbBooking**, then remove it from **tbRoom** table

else display an error message and roll back transaction.