

Bài tổng hợp 01

Total Marks: [20.0]

1. Question 1: Create a Database db_ROLLNUMBER [1]

- Use this database

2. Question 2: Create 4 tables as follows [2]

[tblUser]

[UserID] int not null,
[UserName] nvarchar(50)

[tblOrder]

[OrderID] int not null,
[UserID] int not null,
[OrderDate] datetime

[tblProduct]

[ProductID] int not null,
[ProductName] nvarchar(50),
[Quantity] int,
[Price] money,
[Description] ntext

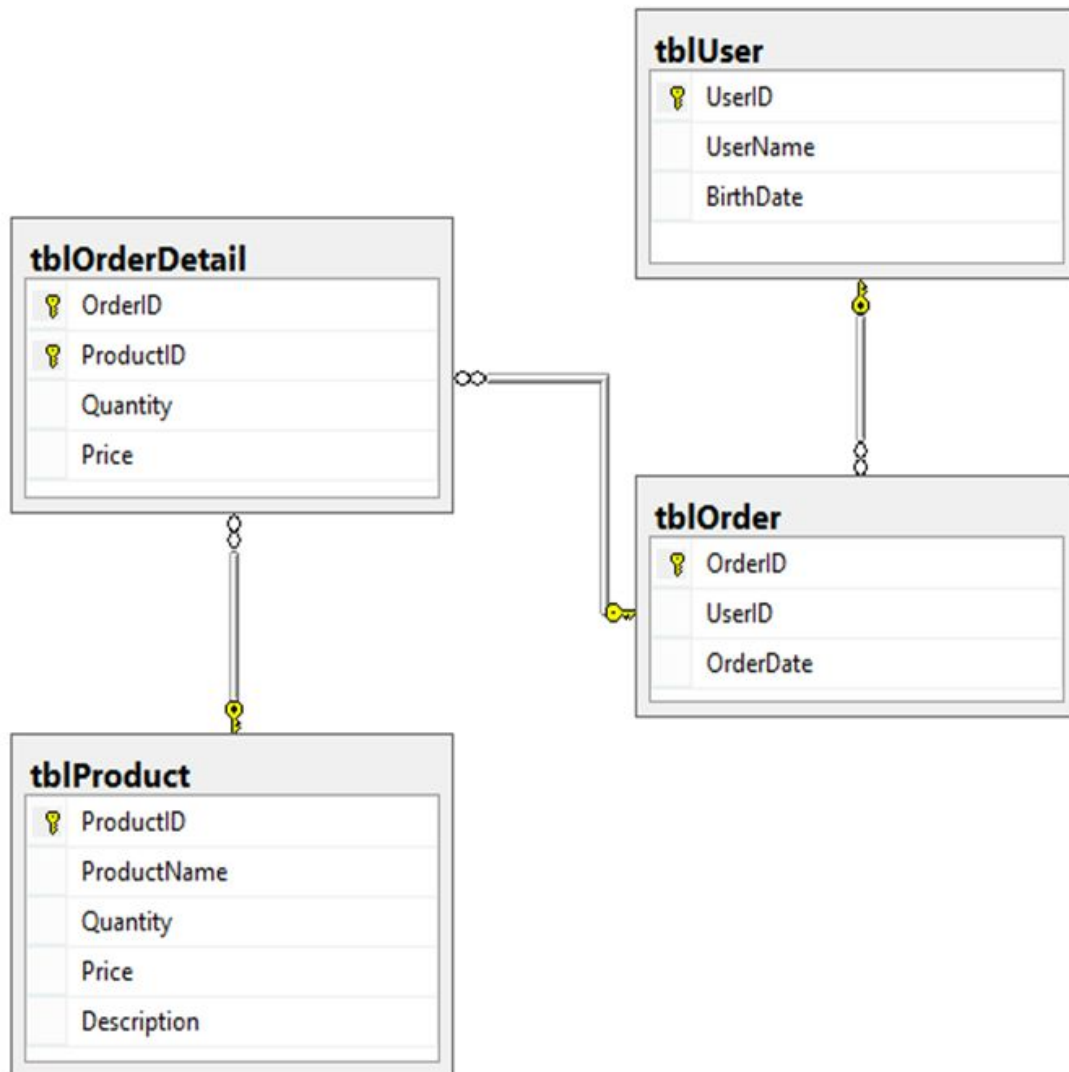
[tblOrderDetail]

[OrderID] int not null,
[ProductID] int not null,
[Quantity] int,
[Price] money

3. Question 3: [5]

- Using Alter table statement to modify table [tblUser] by addition [BirthDate] column with data type is Datetime. (0.5).
- Apply the Default Constraint to the [OrderDate] column in table [tblOrder] with default value is today date when a row is inserted into the table (0.5).

- c. Create a Clustered Index name [index_tblUser] on the [UserID] column of table [tblUser] (0.5)
- d. Drop Clustered Index named [index_tblUser] of table [tblUser] (0.5)
- e. Apply the Primary Key Constraint for the column [UserID] of table tblUser, column [OrderID] for table tblOrder, column [ProductID] of table tblProduct. [0.5]
- f. Apply the Primary Key for columns (orderID, productID) of table tblOrderDetail [0.5]
- g. Apply the Foreign Key (UserID) in the table tblOrder references to column [UserID] of table tblUser. Apply the Foreign key (OrderID) in the table tblOrderDetail references to column [OrderID] of table tblOrder. And apply the Foreign key (ProductID) in the table tblOrderDetail references to column [ProductID] of table tblProduct. [1]
- h. Apply the Check Constraint to the OrderDate column of table tblOrder so that the date is within '2000-01-01' and current date. [0.5]
- i. Apply Unique Constraint to the UserName column of tblUser table. [0.5]



4. Question 4: Insert data into these tables: [3]

Table tblUser:

UserID	UserName	BirthDate
1	User1	1996-03-18
2	User2	1990-02-26
3	User3	1992-04-11

Table tblOrder:

OrderID	UserID	OrderDate
1	2	2002-12-01

2	3	2000-03-02
3	2	2004-08-03
4	1	2001-05-12

Table tableProduct:

ProductID	ProductName	Quantity	Price	Description
1	Product1	2	10	Description1
2	Product2	10	20	Description2
3	Product3	13	300	Description3
4	Product4	7	80	Description4
5	Product5	12	120	Description5

Table tblOrderDetail:

orderID	productID	Quantity	unitPrice
1	1	10	10
1	2	4	20
2	3	5	50
3	3	6	80
4	2	21	120

5. **Question 5:** Using update statement to change of [Price] of all records table [tblProduct] which [ProductID] equal 3 give 10% discount (0.5).

6. **Question 6:** Using Select statement to view all records from 4 tables tblUser, tblOrder, tblOrderDetail, tblProduct as: [1].

UserID	UserName	OrderID	OrderDate	Quantity	Price	ProductName
2	User2	1	00:00.0	10	10	Product1
2	User2	1	00:00.0	4	20	Product2

3	User3	2	00:00.0	5	50	Product3
2	User2	3	00:00.0	6	80	Product3
1	User1	4	00:00.0	21	120	Product2

7. **Question 7:** Create a view named **vwTop2Product** to display top 2 best seller product [1].

ProductID	ProductName	Price	TotalQuantity
2	Product2	20	147
3	Product3	300	11

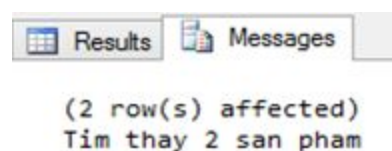
8. **Question 8:**

- Create a Stored Procedure named [sp_TimSanPham]. This procedure has two parameter named @GiaMua money , @count int use output keyword (2đ):
- Display the information of table tblProduct to satisfy the conditions beneath:
Price <= @ GiaMua.
- @count have number of rows in result.
- And execute [sp_ TimSanPham] store procedure with parameter equal 50 (0.5đ).

Result window:

	ProductID	ProductName	Quantity	Price	Description
1	1	Product 1	2	10.00	Description1
2	2	Product2	10	20.00	Description2

Messages window:



9. **Question 9:** Create a trigger for UPDATE event with named [FOR_UPDATE_Product] to check value of [Price] column of table [tblProduct].

- If value of [Price] column less than 10 the updated of table [tblProduct] will be failed and print message 'You don't update price less than 10'. [1]
- Drop this trigger. [0.5]

10. Question 10: Create a trigger for UPDATE event with named

[FOR_UPDATE_UserID] to check value of [UserName] column of table tblUser. [1]

- When the update event on [UserName] column occurring than the updated of table [tblUser] will be failed and print message 'You don't update this column UserName'.

11. Question 11: Create a DDL Trigger for Create Table event with named

[Vidu_DDL_Trigger] on Database scope and message "You have created database successfully" to the creator [1]

12. Question 12: Drop trigger [Vidu_DDL_Trigger] and drop this database. [0.5]