CSIS05I

Database Systems II

Lab (2)

Solutions

Views

Lab (2) Solutions

Exercises:

1. Create the following views in SQL on the Store database schema:

    a) A view that has the customer name and Customer Address, and its DOB is equal to '14/05/1990'.

    ```
    CREATE VIEW [CustomerInformation] AS
    SELECT CustFirstName, CustLastName, CustomerDOB, CustomerAddress
    FROM Customer
    WHERE CustomerDOB = '14/05/1990';
    SELECT * FROM [CustomerInformation];
    ```

    b) A view that has the Customer name and order ID in which the order must be delivered.

    ```
    CREATE VIEW [Customer_orderInformation] AS
    SELECT CustFirstName, CustLastName, OrderID, OrderStatus
    FROM Customer,Orderr
    WHERE CustomerID=CID
    AND OrderStatus ='delivered';

    SELECT * FROM [Customer_orderInformation];
    ```

    c) A view that has the customer ID, and order date and its status with the product name and its

        description.

    ```
    CREATE VIEW [Order_Product informationn ] AS
    SELECT DateOfOrder, OrderStatus, Pname, Pdescription, CID
    FROM Orderr, Product, Order_details
    WHERE orderr.OrderID = order_details.OrderID
    AND PID=ProductID ;

    SELECT * FROM [Order_Product informationn];
    ```

2. Drop view that contains order ID and product name (view that you created in question 1(C)).

    ```
    drop view [Order_Product informationn];
    ```

3. Create a view that has all the customer data, and name it VCustomerAllData, where the customer's

   firstname is 'Mark'.

```
create view VCustomerAllData As
Select *
FROM Customer
WHERE CustFirstName = 'mark';


SELECT * FROM VCustomerAllData;
```

4. Rename the VCustomerAllData to CustomerView.

```
exec sp_rename
'VCustomerAllData',

'CustomerView';
```

5. Create a view that has the product name and product description then name it VProductDetails,

   where the product description starts with 'S'.

```
create or alter view VProductDetails As
Select Pname, Pdescription
FROM Product
WHERE Pdescription like 's%';

select * from VProductDetails;
```

6. Alter the product's view to have with check options.

```
create or alter view VProductDetails As
Select PID, Pname, Pdescription
FROM Product
WHERE Pdescription like 's%' WITH CHECK OPTION;

insert into VProductDetails (PID, Pname, Pdescription)
Values ('50', 'Charger', 'smart charger');
```

7. Insert data into the product table using the view.

```
insert into VProductDetails (PID, Pname, Pdescription)
Values ('51', 'dvd', 'smart dvd');
```

8. Retrieve the data from the product's view.

```
select * from VProductDetails;
```

9. Create a view that contains the CustomerID, customerFirstName and DateOfOrder then name it

    VCustomerOrderDate.

```
create view vCustomerOrderDate As
Select DateOFOrder, CustomerID, CustFirstName
FROM Orderr, Customer
WHERE CustomerID = CID;


select * from vCustomerOrderDate;
```

10. Create an index on the VCustomerOrderDate view.

```
create or alter view vCustomerOrderDate
with schemabinding As
Select DateOFOrder, CustomerID, CustFirstName
FROM dbo.Orderr, dbo.Customer
WHERE CustomerID =CID;

create unique clustered index ClusteredINDEX_Custdetails
on vCustomerOrderDate (DateOFOrder, CustomerID, CustFirstName);
```

- **Extra question:**

11. Create a view that contains the orderID, product name, and customer's address, and name it
    vDetails.

```
create view vDetails As
Select orderr.OrderID, Pname, CustomerAddress, CustFirstName
FROM Orderr, Customer, Product, order_details
WHERE CustomerID = CID and orderr.OrderID = order_details.OrderID and
ProductID=PID;

select * from vDetails;
```