

CSIS05I

Database Systems II

Lab (4)

Solutions

INDEXING
Cluster and non-cluster

Lab (4) Solutions

Exercises:

1. Create a non-clustered index that has all customers IDs in descending order.

```
CREATE NONCLUSTERED INDEX idx_CID  
ON Customer(CustomerID DESC);
```

2. Create a non-clustered index that have all the order information where both order ID and date of order arranged in descending order.

```
CREATE NONCLUSTERED INDEX idx_OrderInformation  
ON Orderr(OrderID DESC, DateOfOrder DESC, CID, OrderStatus);
```

3. Create a non-clustered index that have the quantity of the products in each order arranged in descending order along with the order ID.

```
CREATE NONCLUSTERED INDEX idx_Quantity  
ON Order_Details (Quantity DESC, OrderID);
```

4. Create an index that has all the customer's names without any duplication.

```
CREATE UNIQUE INDEX idx_CustomerNames  
ON Customer(CustFirstName, CustLastName);
```

5. Show all the index information related to table Customer.

```
EXECUTE sp_helpindex 'Customer'  
GO
```

6. Use the stored procedure to retrieve all the information of table order.

```
EXEC SP_help Orderr;
```

7. Create an index on product quantity in ascending order where quantity is less than 11.

```
CREATE NONCLUSTERED INDEX idx_Quantity2  
ON Order_details(Quantity ASC)  
WHERE Quantity<11;
```

8. Create an index on order's date and then covering with its status.

```
CREATE INDEX idx_orderDateAndStatus  
ON Orderr(DateOfOrder)  
INCLUDE(OrderStatus);
```