Task 5

1.

```
3 \stackrel{|}{\boxminus} --1. retrieve the top 10 customer who made the most purchases
      4
         --checking the tables
      6   select * from SalesLT.Customer;
          select * from SalesLT.SalesOrderDetail;
          select * from SalesLT.SalesOrderHeader;
     10 SELECT TOP 10 c.CustomerID, SUM(sod.OrderQty) AS TotalPurchases
     11
          FROM SalesLT.Customer c
          JOIN SalesLT.SalesOrderHeader soh ON soh.CustomerID = c.CustomerID
     12
          JOIN SalesLT.SalesOrderDetail sod ON sod.SalesOrderID = soh.SalesOrderID
     13
     14
          GROUP BY c.CustomerID
110 % -
CustomerID TotalPurchases
    29957
             286
    29796
             271
2
3
    29736
             267
    30050
              197
5
    29929
             173
6
    29546
              167
    29485
              140
             81
    29932
    29938
             77
    29922
             76
```

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```
2.
    17
          --2. retrieve total sales revenue for each product category
    18
    19
     20 SELECT pc.Name, SUM(so.LineTotal) AS TotalSales
          FROM SalesLT.ProductCategory pc
     21
     22
          JOIN SalesLT.Product p ON p.ProductCategoryID = pc.ProductCategoryID
     23
          JOIN SalesLT.SalesOrderDetail so ON so.ProductID = p.ProductID
          GROUP BY pc.Name
     24
     25
          ORDER BY TotalSales DESC;
     26
     27
     20
10 %
■ Results  Messages
                  TotalSales
    Name
    Touring Bikes
                  220655.375796
1
2
    Road Bikes
                  183130.296808
3
    Mountain Bikes
                  170825.886000
4
    Mountain Frames 54949.602000
5
    Road Frames
                  24346.584000
6
    Touring Frames
                  19066.260000
7
                  7017.880276
    Jerseys
                  4309.903750
8
    Vests
9
    Cranksets
                  3968.868000
    Shorts
                  3299.804532
10
11 Pedals
                  2996.496000
Query executed successfully.
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3.
     30
           --3. retrieve the top 5 best-selling products by sales revenue.
     31
     32 SELECT TOP 5 p.Name, SUM(so.LineTotal) AS Revenue
     33
           FROM SalesLT.Product p
           JOIN SalesLT.SalesOrderDetail so ON so.ProductID = p.ProductID
     34
           GROUP BY p.Name
     35
           ORDER BY Revenue DESC;
     36
     37
     38
     39
     10
.10 %
Revenue
    Name
    Touring-1000 Blue, 60
                       37191.492000
1
2
     Mountain-200 Black, 42
                       37178.838000
     Road-350-W Yellow, 48
                       36486.235500
3
4
    Mountain-200 Black, 38
                       35801.844000
    Touring-1000 Yellow, 60 23413.474656
```

4.

```
43
        --4. retrieve the total number of sales orders placed by month
    44
    45
    46
    47
      COUNT(soh.SalesOrderID) AS Count
    48
        FROM SalesLT.SalesOrderHeader AS soh
    49
        GROUP BY MONTH(soh.OrderDate);
    50
    51
    52
    53
10 % ▼ ◀
■ Results  Messages
   Month Count
   6
        32
```

5.

```
54
         --5. retrieve the number of unique products sold in each product category
     55
     56
     57 SELECT COUNT(DISTINCT so.ProductID) AS UniqueSold, pc.Name
         FROM SalesLT.SalesOrderDetail so
     58
          JOIN SalesLT.Product p ON p.ProductID = so.ProductID
     59
         JOIN SalesLT.ProductCategory pc ON pc.ProductCategoryID = p.ProductCategoryID
     60
          GROUP BY pc.Name
     61
          ORDER BY UniqueSold DESC;
     62
     63
     64
110 %
UniqueSold Name
   22
1
              Touring Bikes
2
              Mountain Bikes
              Road Bikes
3
    18
4
              Mountain Frames
5
    10
              Touring Frames
6
    8
              Road Frames
              Jerseys
7
    6
8
              Pedals
              Handlebars
9
    5
10
    5
              Saddles
    3
              Shorts
11
```

6.

```
65 | --6. retrieve the average sales revenue per customer.
      66
      67 SELECT c.CompanyName, AVG(sod.LineTotal) AS Average_Revenue
           FROM SalesLT.Customer c
      68
           JOIN SalesLT.SalesOrderHeader soh ON soh.CustomerID = c.CustomerID
      69
           JOIN SalesLT.SalesOrderDetail sod ON sod.SalesOrderID = soh.SalesOrderID
      70
            GROUP BY c.CompanyName
      71
            ORDER BY Average Revenue DESC;
      72
      73
      74
      75
      76
110 %
■ Results Messages
     CompanyName
                               Average_Revenue
                               2392.401300
    Extreme Riding Supplies
                               2089 983170
2
     Action Bicycle Specialists
3
     Instruments and Parts Company 1901.739000
                               1765.719714
4
     Bulk Discount Store
     Metropolitan Bicycle Supply
                               1730.209044
5
6
     Eastside Department Store
                               1527.520185
     Riding Cycles
                               1415.727465
     Paints and Solvents Company
                               1323 131250
8
     Many Bikes Store
                               1197.884184
     Trailblazing Sports
                               1100 597922
10
     Nearby Cycle Shop
                               1031.827862
Query executed successfully.
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```

7.

```
77
          --7. retrieve the total number of customers by region.
     78
     79
     80 SELECT a.CountryRegion, COUNT(c.CustomerID) AS 'No of Customer'
     81
          FROM SalesLT.Address AS a
          JOIN SalesLT.CustomerAddress AS ca ON ca.AddressID = a.AddressID
     82
          JOIN SalesLT.Customer AS c ON c.CustomerID = ca.CustomerID
     83
          GROUP BY a.CountryRegion
     84
     85
          ORDER BY COUNT(c.CustomerID) DESC;
     86
     87
110 % -
CountryRegion
                No of Customer
                272
1
    United States
                107
2
    Canada
    United Kingdom
                38
```