

```
-- Q4: write a select statement to add dollar sign ($) to both, Amount and Profit columns

SELECT '$' + CAST(Amount AS VARCHAR(20)) AS Amount,

'$' + CAST(Profit AS VARCHAR(20)) AS Profit
       FROM purchase_details;
100 % - 4
  Amount Profit
$1096.00 $658.00
      $5729.00 $64.00
$2927.00 $146.00
       $2847.00 $712.00
        $2617.00 $1151.00
       $2244.00 $247.00
       $275.00 $-275.00
$387.00 $-213.00
  8
      $50.00 $-44.00
$135.00 $-54.00
$231.00 $-190.00
$2125.00 $-234.00
  9
  10
  11
  12
  13
       $3873.00 $-891.00
       $729.00 $-492.00
$2188.00 $1050.00
  14
  15
        $6.00
                     $-3.00
  16
        $1854.00 $433.00
  17
  18
       $6.00
        $6.00 $1.00
$2093.00 $721.00
  19
                                                       DESKTOP-MPNEKS0\SQLEXPRESS ... | DESKTOP-MPNEKS0\Jallal... | online_sales_data | 00:00:00 | 1,500 rows

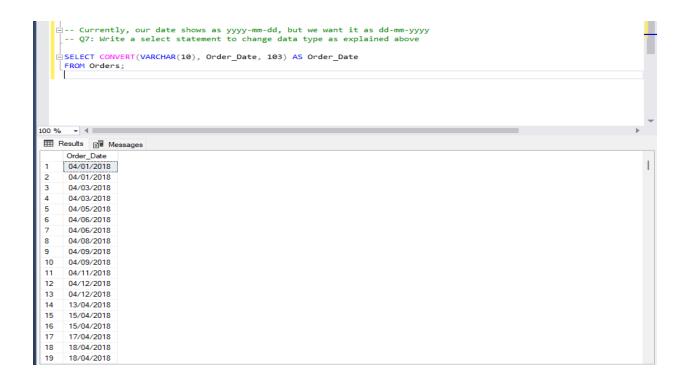
    Query executed successfully.
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-- Q6: Even afer conducting the UPDATE function, we see that the Profit and Amount did not change

-- This could be SQL Server resriction or something like that

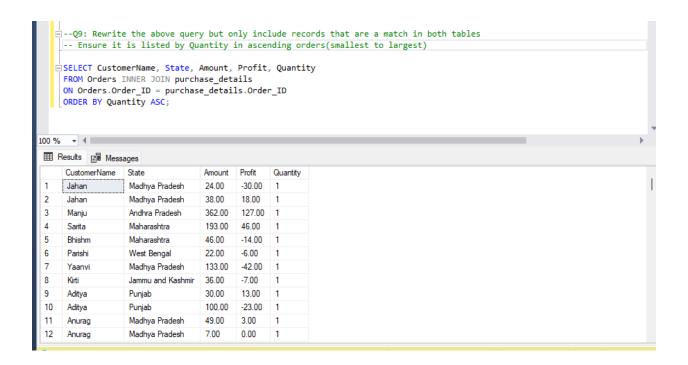
| SELECT * FROM purchase_details
    -- Currently, our date shows as yyyy-mm-dd, but we want it as dd-mm-yyyy -- Q7: Write a select statement to change data type as explained above
    SELECT CONVERT(VARCHAR(10), Order_Date, 103) AS Order_Date
      FROM Orders:
    -- Q8:
SELECT Order_ID, CONVERT(VARCHAR(10), Order_Date, 103) AS Order_Date_Formatted
     FROM Orders;
100 % → ◀ ■
 Results Messages
      Order_ID Amount
B-25681 1096.00
                             Profit
                                                               Sub Category
                                                                                  Payment Mode
                                       Quantity
                                                  Category
                             658.00
                                                  Electronics
                                                               Electronic Games
                                                                                  COD
       B-26055
                   5729.00
                             64.00
                                                  Fumiture
                                                               Chairs
                                                                                  EMI
       B-25955
                   2927.00
                             146.00
                                        8
                                                  Fumiture
                                                                Bookcases
                                                                                  EMI
       B-26093
                   2847.00
                             712.00
                                        8
                                                  Electronics
                                                               Printers
                                                                                  Credit Card
       B-25602
                   2617.00
                             1151 00 4
                                                  Flectronics
                                                               Phones
                                                                                  Credit Card
 6
       B-25881
                   2244.00
                             247 00
                                                  Clothing
                                                                Trousers
                                                                                  Credit Card
       B-25696
                   275.00
                             -275.00
                                                                                  COD
                                                  Clothing
                                                               Saree
       B-25687
                   387.00
                             -213.00
                                                  Clothing
                                                                                  UPI
 8
                                        5
                                                               Saree
       B-25643
                   50.00
                             -44.00
                                                                                  UPI
 9
                                                  Clothing
                                                               Hankerchief
 10
       B-25851
                   135.00
                             -54.00
                                                  Clothing
                                                                                  COD
                                        5
                                                               Kurti
       B-25703
                   231.00
                             -190.00
                                                               Hankerchief
                                                                                  COD
  11
                                                  Clothing
                   2125.00 -234.00 6
       B-25887
                                                  Electronics
                                                               Printers
```

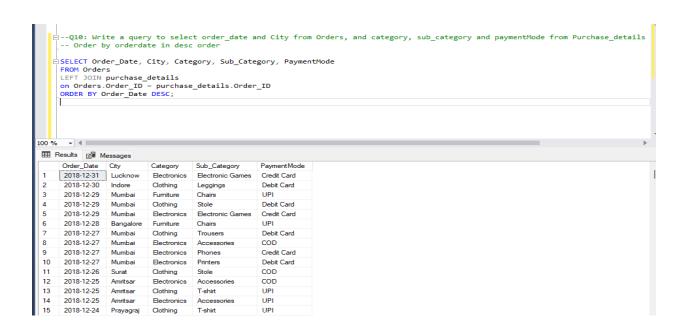


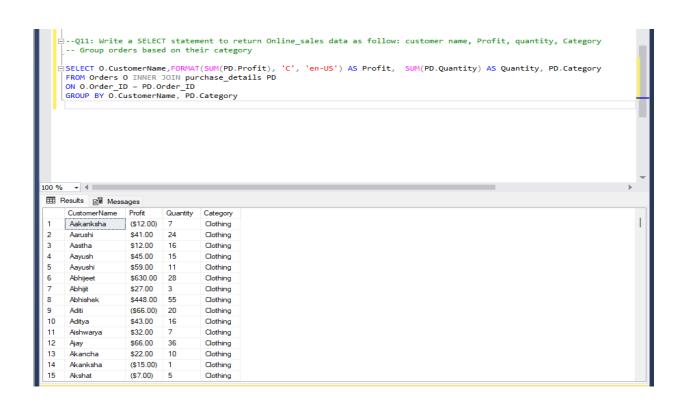
```
□-- Q8: write a query to select CustomerName, State And from Orders, and amount, profit and quantity from purchase_details
|-- the query should return ALL records from Orders table, even if there is no matching record from purchase_details
    EELECT CustomerName, State, Amount, Profit, Quantity ROM Orders LEFT JOIN purchase_details
     N Orders.Order_ID = purchase_details.Order_ID;
100 % - 4
 Results Messages
       CustomerName State
                                         Amount Profit
                                                             Quantity
                                         80.00
                                                   -56.00
      Bharat
                       Guiarat
                                                             4
       Bharat
                       Gujarat
                                         66.00
                                                   -12.00
                                                              5
                       Guiarat
                                         1275.00 1148.00 7
       Bharat
                                                  -2.00
       Bharat
                       Gujarat
                                         8.00
 5
                                         168.00
                                                   -111.00
       Vrinda
                       Maharashtra
                                         119.00 -5.00
 6
       Vrinda
                       Maharashtra
                                         2617.00 1151.00 4
       Vrinda
                       Maharashtra
 8
                                         561.00 212.00 3
                       Maharashtra
       Vrinda
 9
       Vrinda
                       Maharashtra
                                         424.00
                                                   -272.00 5
 10
      Jahan
                       Madhva Pradesh 12.00
                                                   1.00
                                                             2
 11
       Jahan
                       Madhya Pradesh 107.00 36.00
 12
                       Madhya Pradesh 116.00 16.00
       Jahan

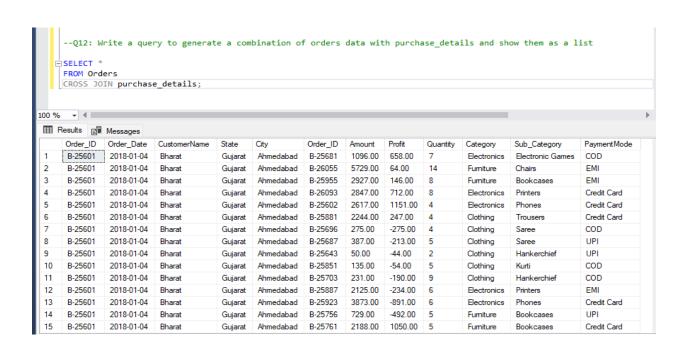
    Query executed successfully.

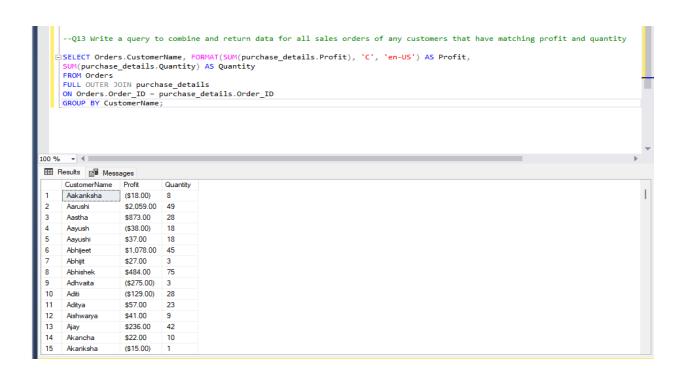
                                                        DESKTOP-MPNEKS0\SQLEXPRESS ... | DESKTOP-MPNEKS0\Jallal... | online_sales_data | 00:00:00 | 1,500 rows
```



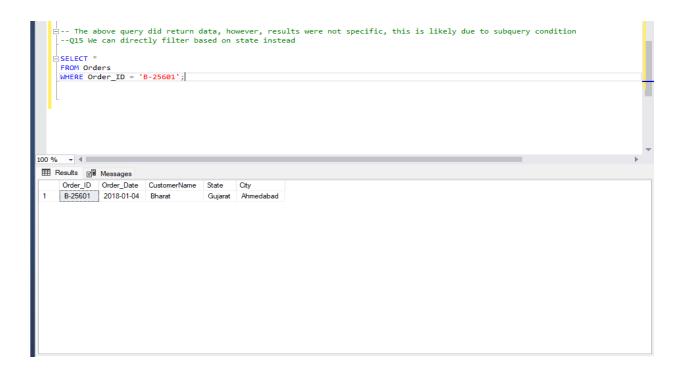


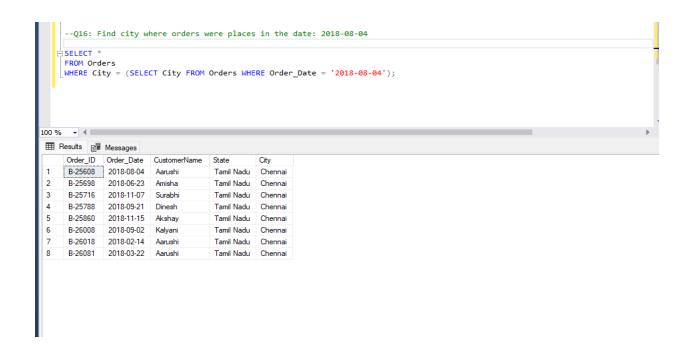


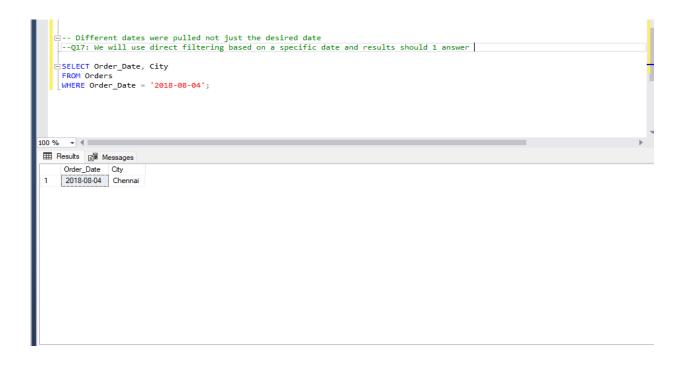




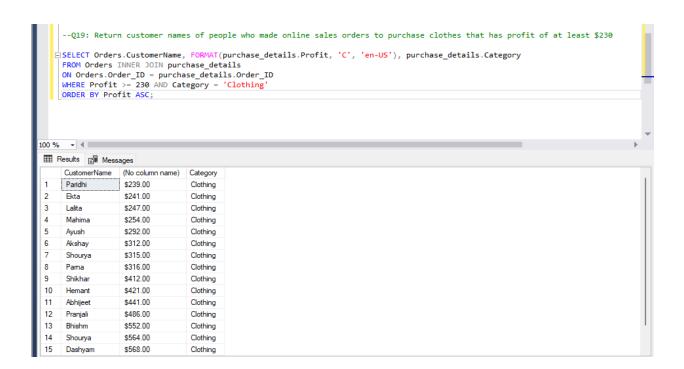
```
--Q14: Find all orders whith a specific order Id
     SELECT *
     FROM Orders
     WHERE State = (SELECT State FROM Orders WHERE Order_ID = 'B-25601');
100 % → ◀
Results Messages
     Order_ID Order_Date CustomerName State
                                              City
                                       Gujarat Ahmedabad
     B-25601 2018-01-04 Bharat
 2
      B-25619
              2018-04-18 Ramesh
                                       Gujarat Ahmedabad
      B-25673
              2018-05-28 Arsheen
                                       Gujarat Ahmedabad
      B-25745
              2018-09-08
                          Kartik
                                       Gujarat Ahmedabad
      B-25763
 5
              2018-08-27
                         Noshiba
                                       Gujarat Ahmedabad
      B-25781
              2018-09-14
 6
                         Rutuja
                                       Gujarat Ahmedabad
              2018-01-10 Divyansh
      B-25799
                                       Gujarat Ahmedabad
      B-25835
              2018-10-29
                         Moumita
                                       Gujarat Ahmedabad
      B-25853
               2018-08-11 Gaurav
                                       Guiarat Ahmedabad
 9
      B-25871
              2018-11-21 Gunjal
 10
                                       Guiarat Surat
      B-25877
 11
               2018-11-24 Dashyam
                                       Gujarat Surat
      B-25883
              2018-11-27 Saptadeep
 12
                                       Gujarat Surat
 13
      B-25889
               2018-03-12 Abhishek
                                       Gujarat Surat
      B-25895
              2018-04-12 Sathya
 14
                                       Gujarat Surat
 15
      B-25901
              2018-10-12 Suraj
                                       Gujarat Surat
```







```
--Q18: Find all customers, their city, and order date that placed more than 7 online sales orders
   SELECT Orders.Order_Date, Orders.CustomerName, Orders.City, purchase_details.Quantity
     FROM Orders INNER JOIN purchase_details
     ON Orders.Order_ID = purchase_details.Order_ID
     WHERE Quantity > 7;
100 % → ◀
 Results Messages
      Order_Date CustomerName
                                        Quantity
                             City
     2018-01-04 Vrinda
                              Pune
                                         8
 2
     2018-03-04 Divsha
                                         9
                              Jaipur
     2018-12-04 Mohan
                              Chandigarh
                                         9
 4
    2018-04-18 Ramesh
                              Ahmedabad
                                        8
 5
     2018-04-26 Parth
                              Pune
                                         8
 6
      2018-04-27 Paridhi
                              Jaipur
                                         13
     2018-04-28 Ajay
                              Bangalore
                                         11
     2018-04-29 Kirti
                                         8
 8
                              Kashmir
    2018-04-30 Mayank
                              Mumbai
 10 2018-06-05 Chirag
                              Mumbai
                                         8
 11 2018-08-05 Farah
                              Kohima
                                         8
 12
     2018-08-05
                Farah
                              Kohima
                                         8
 13
     2018-08-05
                Farah
                              Kohima
                                         8
 14
    2018-11-05 Nida
                              Indore
                                         9
    2018-11-05 Nida
                              Indore
                                         8
```

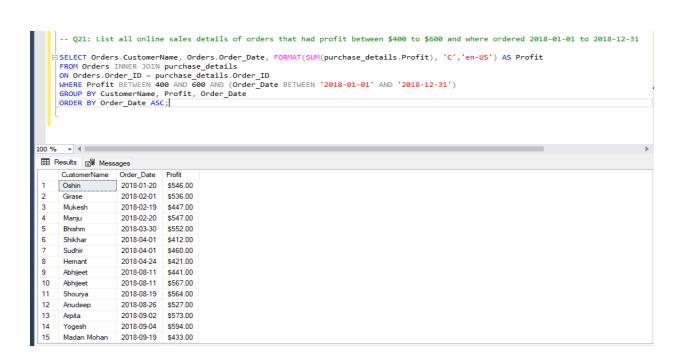


```
--Q20: return online sales orders of electrnics games that were ordered by credit cards
     SELECT *
       FROM purchase_details
      where Category = 'Electronics' AND Sub_Category = 'Electronic Games' AND PaymentMode = 'Credit Card';
100 % - 4
Results Messages
                                          Quantity Category

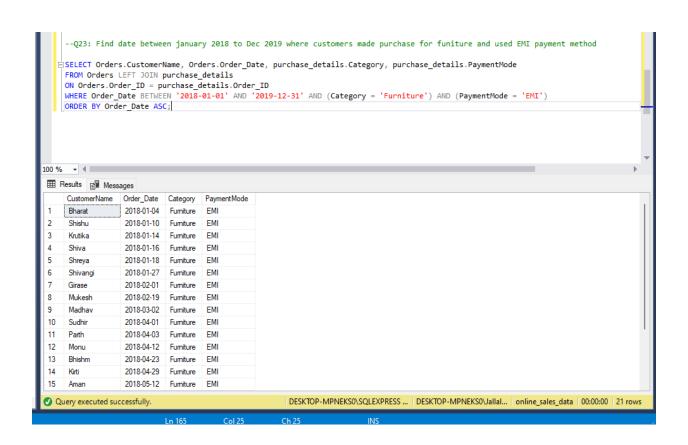
        Order_ID
        Amount
        Profit
        Quantity

        B-25762
        1316.00
        527.00
        7

        Order_ID
                    Amount
                               Profit
                                                                    Sub Category
                                                                                        Payment Mode
                                                     Electronics Electronic Games Credit Card
        B-25897
                     734.00
                               213.00 6
                                                      Electronics Electronic Games Credit Card
        B-25848
                    648.00
                               50.00
                                                     Electronics Electronic Games Credit Card
                                          6
        B-26016
                    429.00
                               61.00
                                                                   Electronic Games Credit Card
                                          3
                                                     Electronics
        B-25925
                   314 00
                               -41 00
                                          3
                                                     Electronics Electronic Games Credit Card
                                              Electronics Electronic Games Credit Card
Electronics Electronic Games Credit Card
Electronics Electronic Games Credit Card
Electronics Electronic Games Credit Card
        B-25997
                    231.00 99.00
                                          2
        B-25621
                    228.00
                               63.00
                                          3
        B-25927
                    200.00 7.00
 9 B-25953 188.00 -193.00 2 Electronics Electronic Games Credit Card 10 B-25614 98.00 -12.00 2 Electronics Electronic Games Credit Card
```



```
--Q22: Find total profit or loss for each state and for the date after 2018-05-20
   SELECT Orders.State,Orders.Order_Date, FORMAT(SUM(purchase_details.Profit), 'C', 'en-US') AS Profit
     FROM Orders INNER JOIN purchase_details
     ON Orders.Order_ID = purchase_details.Order_ID
WHERE Order_Date > '2018-05-20'
     GROUP BY State, Profit, Order_Date
ORDER BY Order_Date ASC;
100 % - 4
Results Messages
                      Order_Date Profit
                     2018-05-21 ($113.00)
     Kerala
      Punjab
                      2018-05-22 ($916.00)
                      2018-05-23 ($34.00)
3
      Harvana
 4
                      2018-05-23 ($2.00)
      Haryana
                      2018-05-23 $6.00
5
     Haryana
      Haryana
                      2018-05-23 $69.00
 7
                      2018-05-23 $206.00
      Haryana
 8
      Himachal Pradesh 2018-05-24 $17.00
                      2018-05-25 ($36.00)
 9
      Goa
                      2018-05-25 $1.00
 10 Goa
                      2018-05-25 $2.00
 11 Goa
 12
      Goa
                      2018-05-25 $29.00
 13
      Sikkim
                      2018-05-25 ($66.00)
                2018-05-27 $0.00
 14 Nagaland
15 Andhra Pradesh 2018-05-28 ($15.00)
```



```
--Q24: Find locations of customers who purchased more than 2 trousers and at least 4 Saree
    SELECT Orders.CustomerName, Orders.State, Orders.City, purchase_details.Sub_Category, purchase_details.Quantity
     FROM Orders INNER JOIN purchase details
     ON Orders.Order_ID = purchase_details.Order_ID
     WHERE Sub_Category IN ('Trousers', 'Saree') AND (Quantity > 2 AND Quantity >= 4);
100 % → ◀ ■
 Results Messages
      CustomerName
                    State
                                     City
                                                        Sub_Category
                                                                     Quantity
      Vrinda
                    Maharashtra
                                      Pune
                                                                     8
                                                        Saree
      Jahan
                    Madhya Pradesh
                                      Bhopal
                                                                     5
                                                        Trousers
      Divsha
                    Rajasthan
                                                        Saree
                                                                     9
                                      Jaipur
      Kasheen
                    West Bengal
                                      Kolkata
                                                        Saree
                                                                     7
      Jitesh
                    Uttar Pradesh
                                      Lucknow
                                                        Saree
                                                                     9
      Mohan
                    Haryana
                                      Chandigarh
                                                        Saree
      Ramesh
                                      Ahmedabad
                    Gujarat
                                                        Saree
      Atharv
                    West Bengal
                                      Kolkata
                                                        Saree
                                                                     5
      Pinky
                    Jammu and Kashmir
                                      Kashmir
                                                        Saree
                    Bihar
                                      Patna
      Pooja
                                                        Saree
 11
      Amit
                    Sikkim
                                      Gangtok
                                                        Saree
                                                                     5
 12
      Nishi
                    Maharashtra
                                      Mumbai
                                                        Saree
 13
      Paridhi
                    Rajasthan
                                      Jaipur
                                                        Saree
                                                                     13
      Paridhi
                    Rajasthan
                                      Jaipur
                                                        Saree
      Sharda
                    Kerala
                                      Thiruvananthapuram Saree
                                                                     4
```