HOMEWORK 1

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日期: 2022 - 10 - 24

Question 1

```
SELECT DISTINCT ShipName, SUBSTR(ShipName,1,INSTR(ShipName,'-')-1) as "Before-"
 FROM "Order"
 WHERE ShipName like '%-%'
 ORDER BY ShipName
                              ∨ ▷ 运行 • □ 停止 🖺 解释
// homework1
              ∨ ■ main
   1 SELECT DISTINCT ShipName, SUBSTR(ShipName,1,INSTR(ShipName,'-')-1) AS "Before-"
   2 FROM "Order"
   3 WHERE ShipName like '%-%'
   4 ORDER BY ShipName
   5
信息 摘要 结果 1
ShipName
               Before-
Bottom-Dollar Markets Bottom
▶ Chop-suey Chinese
               Chop
GROSELLA-Restaurante GROSELLA
HILARION-Abastos
```

Question 2

Save-a-lot Markets Save

QUICK-Stop

Hungry Owl All-Night Gro Hungry Owl All LILA-Supermercado LILA LINO-Delicateses

LINO

QUICK

```
SELECT Id,
      ShipCountry,
      iif(ShipCountry in ('USA','Canada','Mexico'),'NorthAmerica','OtherPlace') as Region
FROM "Order"
WHERE Id >= 15445
ORDER BY Id
LIMIT 20
```

```
▷ 运行 • □ 停止 唱解释
homework1
                        main
     SELECT Id,
             ShipCountry,
             iif(ShipCountry in ('USA', 'Canada', 'Mexico'), 'NorthAmerica', 'OtherPlace') as Region
 10
 11 FROM "Order"
 12 WHERE Id >= 15445
     ORDER BY Id
     LIMIT 20
信息
     摘要
            结果1
ld
           ShipCountry
                          Region
     15445 France
                          OtherPlace
                          OtherPlace
     15446 Italy
     15447 Portugal
                          OtherPlace
     15448 Argentina
                          OtherPlace
                          OtherPlace
     15449 Portugal
                          OtherPlace
     15450 Venezuela
                          OtherPlace
     15451 Brazil
                          OtherPlace
     15452 France
                          OtherPlace
     15453 France
     15454 Canada
                          NorthAmerica
     15455 USA
                          NorthAmerica
     15456 France
                          OtherPlace
     15457 Mexico
                          NorthAmerica
     15458 USA
                          NorthAmerica
     15459 Germany
                          OtherPlace
                          OtherPlace
     15460 Argentina
                          OtherPlace
     15461 Austria
                          OtherPlace
     15462 Austria
     15463 Finland
                          OtherPlace
     15464 Brazil
                          OtherPlace
```

```
SELECT S.CompanyName, ROUND(100*((SELECT COUNT(00.Shipvia))

FROM "Order" 00

WHERE 00.ShippedDate > 00.RequiredDate

AND 00.Shipvia = 0.Shipvia)

+0.0)/COUNT(0.Shipvia),2) as "Precent"

FROM Shipper S, "Order" 0

WHERE S.Id = 0.Shipvia

GROUP BY 0.Shipvia
```

```
17
  18 ☐ SELECT S.CompanyName, ROUND(100*((SELECT COUNT(00.ShipVia)
  19
                                         FROM "Order" 00
                                         WHERE 00.ShippedDate > 00.RequiredDate
  20
  21
                                         AND 00.ShipVia = 0.ShipVia)
  22
                                   +0.0)/COUNT(0.ShipVia),2) as "Precent"
  23 FROM Shipper S, "Order" 0
  24 WHERE S.Id = O.ShipVia
  25 GROUP BY O.ShipVia
            结果 1
信息
     摘要
 CompanyName
                   Precent
Speedy Express
                        23.46
 United Package
                        23.44
 Federal Shipping
                        23.61
```

```
SELECT C.CategoryName,
       COUNT(*) as "NUM",
    ROUND(AVG(UnitPrice), 2) as "AVG", MIN(UnitPrice) as "MIN", MAX(UnitPrice) as "MAX",
       SUM(UnitsOnOrder) as "TOTAL"
FROM Product P, Category C
WHERE P.CategoryId = C.Id
GROUP BY C.Id
HAVING COUNT(*) > 10
ORDER BY C.Id
40
27 -- 4
28 SELECT C.CategoryName,
     COUNT(*) as "NUM",
29
          ROUND(AVG(UnitPrice),2) as "AVG", MIN(UnitPrice) as "MIN", MAX(UnitPrice) as "MAX",
30
          SUM(UnitsOnOrder) as "TOTAL"
31
32 FROM Product P, Category C
33 WHERE P.CategoryId = C.Id
34 GROUP BY C.Id
35 HAVING COUNT(*) > 10
```

信息 摘要	结果	1				
CategoryName		NUM	AVG	MIN	MAX	TOTAL
▶ Beverages		12	37.98	4.5	263.5	60
Condiments		12	23.06	10	43.9	170
Confections		13	25.16	9.2	81	180
Seafood		12	20.68	6	62.5	120

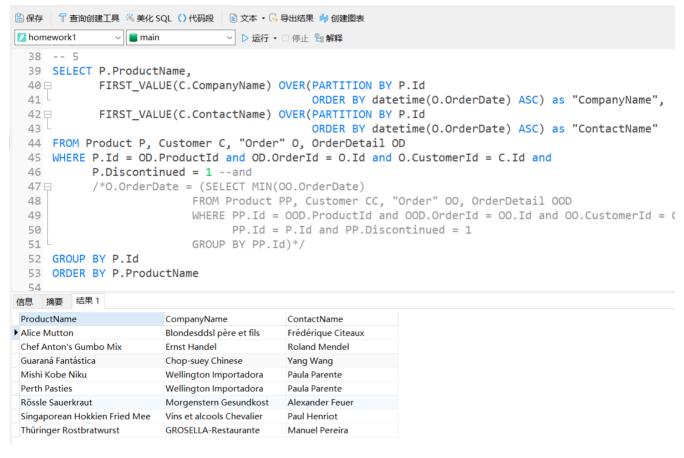
Question 5

36 ORDER BY C.Id

37

```
SELECT P.ProductName,
FIRST_VALUE(C.CompanyName) OVER(PARTITION BY P.Id
```

```
ORDER BY julianday(0.OrderDate) ASC) as
                                      "CompanyName",
      FIRST_VALUE(C.ContactName) OVER(PARTITION BY P.Id
                                       ORDER BY julianday(0.OrderDate) ASC) as
                                     "ContactName"
FROM Product P, Customer C, "Order" O, OrderDetail OD
WHERE P.Id = OD.ProductId and OD.OrderId = O.Id and O.CustomerId = C.Id and
      P.Discontinued = 1 --and
            /*0.orderDate = (SELECT MIN(00.orderDate)
                           FROM Product PP, Customer CC, "Order" 00, OrderDetail 00D
                                         WHERE PP.Id = OOD.ProductId and OOD.OrderId =
OO.Id and OO.CustomerId = CC.Id and
                                               PP.Id = P.Id and PP.Discontinued = 1
                                         GROUP BY PP.Id)*/
GROUP BY P.Id
ORDER BY P.ProductName
```



```
SELECT Id, OrderDate,
             LAG(OrderDate, 1, OrderDate) OVER (ORDER BY OrderDate ASC) as "PrevOrderDate",
             ROUND(JULIANDAY(OrderDate)-JULIANDAY(LAG(OrderDate,1,OrderDate)
                                                                       OVER (ORDER BY OrderDate ASC)),2)
                                                                       as "Difference"
  FROM "Order"
  WHERE CustomerId = 'BLONP'
  ORDER BY OrderDate ASC
  LIMIT 10
 55
 56 SELECT Id, OrderDate,
              LAG(OrderDate, 1, OrderDate) OVER (ORDER BY OrderDate ASC) as "PrevOrderDate".
 57
              ROUND(JULIANDAY(OrderDate)-JULIANDAY(LAG(OrderDate,1,OrderDate) OVER (ORDER BY OrderDate ASC)),2) as "Difference"
 58
 59 FROM "Order"
 60 WHERE CustomerId = 'BLONP'
 61 ORDER BY OrderDate ASC
 62 LIMIT 10
 63
信息 摘要 结果 1

        OrderDate
        PrevOrderDate
        Different

        16766 2012-07-22 23:11:15
        2012-07-22 23:11:15

Id OrderDate
                                                     Difference
                                2012-07-22 23:11...
2012-07-22 23:11:15
                                                                0
    10265 2012-07-25
                                                              2.03
    12594 2012-08-16 12:35:15 2012-07-25
                                                             22.52
    20249 2012-08-16 16:52:23 2012-08-16 12:35:15 0.18 2082 2012-08-18 19:11:48 2012-08-16 16:52:23 2.1 18443 2012-08-28 05:34:03 2012-08-18 19:11:48 9.43
    10297 2012-09-04 2012-08-28 05:34:03
11694 2012-09-17 00:27:14 2012-09-04
                                                              6.77
                                                             13.02
    25613 2012-09-18 22:37:15 2012-09-17 00:27:14
                                                            1.92
    17361 2012-09-19 12:13:21 2012-09-18 22:37:15
                                                              0.57
```

