

Today's exercise 2011-05-06

Suggestions for solutions:

1:

```
SELECT o.city AS Office, COUNT(*) AS NumberOfEmployees
FROM classicmodels.offices o
LEFT OUTER JOIN classicmodels.employees e ON o.officeCode = e.officeCode
GROUP BY o.city
ORDER BY o.city
```

2:

```
SELECT DATE_FORMAT(orderDate, '%Y-%m') AS SalesMonth, SUM(od.quantityOrdered *
od.priceEach) AS OrderValue
FROM classicmodels.orders o
LEFT OUTER JOIN classicmodels.orderdetails od ON o.orderNumber =
od.orderNumber
GROUP BY SalesMonth
ORDER BY SalesMonth;
```

3:

```
SELECT DATE_FORMAT(orderDate, '%Y-%m') AS SalesMonth,
FORMAT(SUM(od.quantityOrdered * od.priceEach), 2) AS OrderValue
FROM classicmodels.orders o
LEFT OUTER JOIN classicmodels.orderdetails od ON o.orderNumber =
od.orderNumber
GROUP BY SalesMonth
ORDER BY SalesMonth;
```

4:

UPDATED 2011-05-09:

```
SELECT
c.customerName,
FORMAT(SUM(od.quantityOrdered * od.priceEach), 2) AS TotalCustomerValue,
FORMAT((SELECT SUM(amount)
FROM payments
WHERE customerNumber = o.customerNumber), 2) AS TotalCustomerPaid,
FORMAT(SUM(od.quantityOrdered * od.priceEach) - (SELECT SUM(amount)
FROM payments
WHERE customerNumber =
o.customerNumber), 2) AS Difference
FROM orders o
INNER JOIN orderdetails od ON o.orderNumber = od.orderNumber
INNER JOIN customers c ON c.customerNumber = o.customerNumber
GROUP BY o.customerNumber
ORDER BY c.customerName
```

5:

UPDATED 2011-05-09:

```
SELECT
c.customerName,
FORMAT(SUM(od.quantityOrdered * od.priceEach), 2) AS TotalCustomerValue,
FORMAT((SELECT SUM(amount)
FROM payments
WHERE customerNumber = o.customerNumber), 2) AS TotalCustomerPaid,
FORMAT((SELECT SUM(amount)
FROM payments
WHERE customerNumber = o.customerNumber) - SUM(od.quantityOrdered *
od.priceEach), 2) AS Difference,
c.creditLimit
FROM orders o
INNER JOIN orderdetails od ON o.orderNumber = od.orderNumber
INNER JOIN customers c ON c.customerNumber = o.customerNumber
GROUP BY o.customerNumber
```

```
HAVING -((SELECT SUM(amount)
          FROM payments
          WHERE customerNumber = o.customerNumber) - SUM(od.quantityOrdered *
od.priceEach)) > c.creditLimit
ORDER BY c.customerName
```

6:

```
SELECT
  c.customerName AS Customer,
  CONCAT(c.contactFirstName, ' ', c.contactLastName) AS CustomerContact,
  c.city AS CustomerCity,
  c.country AS CustomerCountry,
  CONCAT(e.firstName, ' ', e.lastName) AS SalesRepresentative,
  o.city AS OfficeCity,
  o.country AS OfficeCountry
FROM customers c
  LEFT OUTER JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber
  LEFT OUTER JOIN offices o ON e.officeCode = o.officeCode
ORDER BY CustomerCountry, CustomerCity;
```

7:

```
SELECT
  c.country AS CustomerCountry,
  COUNT(*) AS NoOfCustomersWithoutLocalRep
FROM customers c
  LEFT OUTER JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber
  LEFT OUTER JOIN offices o ON e.officeCode = o.officeCode
WHERE c.country <> o.country
GROUP BY CustomerCountry
ORDER BY CustomerCountry;
```

8:

```
SELECT
  c.city AS CustomerCity,
  COUNT(*) AS NoOfCustomersWithoutLocalRep
FROM customers c
  LEFT OUTER JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber
  LEFT OUTER JOIN offices o ON e.officeCode = o.officeCode
WHERE c.city <> o.city
   OR (c.city = o.city
       AND c.country <> o.country)
GROUP BY CustomerCity
ORDER BY CustomerCity;
```

9:

UPDATED 2011-05-09:

```
SELECT
  CONCAT(e.firstName, ' ', e.lastName) AS SalesRepresentative,
  FORMAT(SUM(od.quantityOrdered * od.priceEach), 2) AS OrderValue
FROM orders o
  INNER JOIN orderdetails od ON o.orderNumber = od.orderNumber
  INNER JOIN customers c ON o.customerNumber = c.customerNumber
  INNER JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber
GROUP BY SalesRepresentative
ORDER BY OrderValue
LIMIT 5
```

10:

```
SELECT
  DATE_FORMAT(orderDate, '%Y-%m') AS SalesMonth,
  CONCAT(e.firstName, ' ', e.lastName) AS SalesRepresentative,
  FORMAT(SUM(od.quantityOrdered * od.priceEach), 2) AS OrderValue
FROM orders o
  INNER JOIN orderdetails od ON o.orderNumber = od.orderNumber
```

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```
INNER JOIN customers c ON o.customerNumber = c.customerNumber
INNER JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber
GROUP BY SalesMonth, SalesRepresentative
ORDER BY SUM(od.quantityOrdered * od.priceEach) DESC
LIMIT 5
```