

Task P7.1.4

- a) What do you think its purpose might be? (What do people want to know when they issue such a query?)

I think purpose of this query might be to get information about when customer has placed order according to date.

- b) Rewrite the query using proper JOIN syntax

SELECT CustFirstName, CustLastName, OrderDate FROM customers JOIN orders ON customers.CustomerID = orders.CustomerID ORDER BY CustLastName, CustFirstName, OrderDate DESC

✓ Showing rows 0 - 24 (944 total, Query took 0.0033 seconds.) [CustLastName: **ABOLROUS... - ABOLROUS...**] [CustFirstName: **SAM... - SAM...**]

```
SELECT CustFirstName, CustLastName, OrderDate FROM customers JOIN orders ON customers.CustomerID = orders.CustomerID ORDER BY CustLastName, CustFirstName, OrderDate DESC
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

1 > >> | Number of rows: 25

+ Options

CustFirstName ▲ 2	CustLastName ▲ 1	OrderDate ▼ 3
Sam	Abolrous	2013-02-28
Sam	Abolrous	2013-02-25
Sam	Abolrous	2013-02-23
Sam	Abolrous	2013-02-13
Sam	Abolrous	2013-02-12
Sam	Abolrous	2013-02-11
Sam	Abolrous	2013-02-10
Sam	Abolrous	2013-02-05
Sam	Abolrous	2013-01-28
Sam	Abolrous	2013-01-28
Sam	Abolrous	2013-01-27
Sam	Abolrous	2013-01-22
Sam	Abolrous	2013-01-09
Sam	Abolrous	2013-01-07
Sam	Abolrous	2013-01-06
Sam	Abolrous	2012-12-27
Sam	Abolrous	2012-12-25
Sam	Abolrous	2012-12-10
Console	Abolrous	2012-12-06

- c) Modify the query to include the one customer who doesn't have an order.

SELECT Customers.CustFirstName, Customers.CustLastName, Orders.OrderDate FROM customers LEFT JOIN orders ON customers.CustomerID = orders.CustomerID

✓ Showing rows 0 - 24 (945 total, Query took 0.0032 seconds.) [CustLastName: **TIREKICKER...** - **SEIDEL...**] [CustFirstName: **JEFFREY...** - **MANUELA...**]

```
SELECT Customers.CustFirstName, Customers.CustLastName, Orders.OrderDate FROM customers LEFT JOIN orders ON customers.CustomerID = orders.CustomerID ORDER BY OrderDate, CustLastName, CustFirstName DESC
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 ▾ > >> | Number of rows: 25 ▾

+ Options

CustFirstName ▾ 3	CustLastName ▲ 2	OrderDate ▲ 1
Jeffrey	Tirekicker	NULL
Sam	Abolrous	2012-09-01
Andrew	Cencini	2012-09-01
Gary	Hallmark	2012-09-01
Liz	Keyser	2012-09-01
Mark	Rosales	2012-09-01
Mariya	Sergienko	2012-09-01
David	Smith	2012-09-01
William	Thompson	2012-09-01
Suzanne	Viescas	2012-09-01
Suzanne	Viescas	2012-09-01
Sam	Abolrous	2012-09-02
Joyce	Bonnicksen	2012-09-02
Robert	Brown	2012-09-02
Alaina	Hallmark	2012-09-02
Rachel	Patterson	2012-09-02
Luke	Patterson	2012-09-02
Mark	Rosales	2012-09-02

***ORDER BY is changed to show row with NULL values**

d) Modify the query to include only the latest order of each customer.

```
SELECT Customers.CustFirstName, Customers.CustLastName, Orders.OrderDate FROM customers  
JOIN orders ON customers.CustomerID = orders.CustomerID WHERE Orders.OrderDate = (SELECT  
max(orders.OrderDate) from orders WHERE customers.CustomerID = orders.CustomerID) ORDER BY  
CustLastName, CustFirstName, OrderDate DESC
```

✓ Showing rows 0 - 24 (27 total, Query took 0.0043 seconds.) [CustLastName: ABOLROUS... - VIESCAS...]
[CustFirstName: SAM... - JOHN...]

```
SELECT Customers.CustFirstName, Customers.CustLastName, Orders.OrderDate FROM customers JOIN orders ON  
customers.CustomerID = orders.CustomerID WHERE Orders.OrderDate = (SELECT max(orders.OrderDate) from orders WHERE  
customers.CustomerID = orders.CustomerID) ORDER BY CustLastName, CustFirstName, OrderDate DESC
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | ☐ Show all | Number of rows: 25

+ Options

CustFirstName	CustLastName	OrderDate
Sam	Abolrous	2013-02-28
Joyce	Bonnicksen	2013-02-28
Robert	Brown	2013-02-26
Andrew	Cencini	2013-02-26
Kirk	DeGrasse	2013-02-28
Zachary	Ehrlich	2013-02-28
Darren	Gehring	2013-02-01
Alaina	Hallmark	2013-02-28
Gary	Hallmark	2013-02-16
Angel	Kennedy	2013-02-21
Liz	Keyser	2013-02-27
Dean	McCrae	2013-02-26
Luke	Patterson	2013-02-21
Maria	Patterson	2013-02-28
Neil	Patterson	2013-02-26
Rachel	Patterson	2013-02-24
Estella	Pundt	2013-02-28
Mark	Rosales	2013-02-24
	Schubert	2013-02-27