

Lab 3: Selects with Joins

1. List all orders and their corresponding order details.

Ans: **SELECT ***

```
FROM Orders LEFT OUTER JOIN [Order Details]
ON Orders.OrderID=[Order Details].OrderID;
```

SQLQuery1.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (53))*

```
SELECT *
FROM Orders LEFT OUTER JOIN [Order Details]
ON Orders.OrderID=[Order Details].OrderID;
```

100 %

Results Messages

	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName
1	10248	VINET	5	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000	3	32.38	Vins et
2	10248	VINET	5	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000	3	32.38	Vins et
3	10248	VINET	5	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000	3	32.38	Vins et
4	10249	TOMSP	6	1996-07-05 00:00:00.000	1996-08-16 00:00:00.000	1996-07-10 00:00:00.000	1	11.61	Toms et
5	10249	TOMSP	6	1996-07-05 00:00:00.000	1996-08-16 00:00:00.000	1996-07-10 00:00:00.000	1	11.61	Toms et
6	10250	HANAR	4	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000	2	65.83	Hanari
7	10250	HANAR	4	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000	2	65.83	Hanari
8	10250	HANAR	4	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000	2	65.83	Hanari
9	10251	VICTE	3	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000	1	41.34	Victual
10	10251	VICTE	3	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000	1	41.34	Victual
11	10251	VICTE	3	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000	1	41.34	Victual
12	10252	SUPRD	4	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000	2	51.30	Suprén
13	10252	SUPRD	4	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000	2	51.30	Suprén
14	10252	SUPRD	4	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000	2	51.30	Suprén
15	10253	HANAR	3	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000	2	58.17	Hanari
16	10253	HANAR	3	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000	2	58.17	Hanari
17	10253	HANAR	3	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000	2	58.17	Hanari
18	10254	CHOPS	5	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000	2	22.98	Chop-s
19	10254	CHOPS	5	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000	2	22.98	Chop-s
20	10254	CHOPS	5	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000	2	22.98	Chop-s
21	10255	RICSU	9	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000	3	148....	Richter
22	10255	RICSU	9	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000	3	148....	Richter
23	10255	RICSU	9	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000	3	148....	Richter

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (53) Northwind 00:00:00 2155 rows

2. List all orders (OrderID) and matching customers (Company Name).

Ans: **SELECT o.OrderID, c.CompanyName**

```
FROM Orders o LEFT OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

SQLQuery1.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (53))

```
--2. List all orders (OrderID) and matching customers (Company Name).
SELECT o.OrderID, c.CompanyName
FROM Orders o LEFT OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

100 %

Results Messages

	OrderID	CompanyName
1	10643	Alfreds Futterkiste
2	10692	Alfreds Futterkiste
3	10702	Alfreds Futterkiste
4	10835	Alfreds Futterkiste
5	10952	Alfreds Futterkiste
6	11011	Alfreds Futterkiste
7	10308	Ana Trujillo Emparedados y helados
8	10625	Ana Trujillo Emparedados y helados
9	10759	Ana Trujillo Emparedados y helados
10	10926	Ana Trujillo Emparedados y helados
11	10365	Antonio Moreno Taquería
12	10507	Antonio Moreno Taquería
13	10535	Antonio Moreno Taquería
14	10573	Antonio Moreno Taquería
15	10677	Antonio Moreno Taquería
16	10682	Antonio Moreno Taquería
17	10856	Antonio Moreno Taquería
18	10355	Around the Horn
19	10383	Around the Horn

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (53) Northwind 00:00:01 830 rows

3. List orders (OrderID) and corresponding customers (Company Name), only where the records match up.

Ans:

```
SELECT o.OrderID, c.CompanyName
FROM Orders o INNER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

The screenshot shows a SQL query window with the following text:

```
--3.List orders (OrderID) and corresponding customers (Company Name), only where the records match up.

SELECT o.OrderID, c.CompanyName
FROM Orders o INNER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

The results pane shows a table with two columns: OrderID and CompanyName. The data is as follows:

OrderID	CompanyName
10643	Alfreds Futterkiste
10692	Alfreds Futterkiste
10702	Alfreds Futterkiste
10835	Alfreds Futterkiste
10952	Alfreds Futterkiste
11011	Alfreds Futterkiste
10308	Ana Trujillo Emparedados y helados
10625	Ana Trujillo Emparedados y helados
10759	Ana Trujillo Emparedados y helados
10926	Ana Trujillo Emparedados y helados
10365	Antonio Moreno Taquería
10507	Antonio Moreno Taquería
10535	Antonio Moreno Taquería
10573	Antonio Moreno Taquería
10677	Antonio Moreno Taquería
10682	Antonio Moreno Taquería
10856	Antonio Moreno Taquería
10355	Around the Horn
10383	Around the Horn

The status bar at the bottom indicates: Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (55) Northwind 00:00:00 830 rows

4. List all orders (OrderID) and all customers (Company Name), matching records appropriately.

Ans:

```
SELECT o.OrderID, c.CompanyName
FROM Orders o FULL OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;s
```

The screenshot shows a SQL query window with the following text:

```
--4.List all orders (OrderID) and all customers (Company Name), matching records appropriately.

SELECT o.OrderID, c.CompanyName
FROM Orders o FULL OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

The results pane shows a table with two columns: OrderID and CompanyName. The data is as follows:

OrderID	CompanyName
10643	Alfreds Futterkiste
10692	Alfreds Futterkiste
10702	Alfreds Futterkiste
10835	Alfreds Futterkiste
10952	Alfreds Futterkiste
11011	Alfreds Futterkiste
10308	Ana Trujillo Emparedados y helados
10625	Ana Trujillo Emparedados y helados
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10926	Ana Trujillo Emparedados y helados
10365	Antonio Moreno Taquería
10507	Antonio Moreno Taquería
10535	Antonio Moreno Taquería
10573	Antonio Moreno Taquería
10677	Antonio Moreno Taquería
10682	Antonio Moreno Taquería
10856	Antonio Moreno Taquería
10355	Around the Horn
10383	Around the Horn

The status bar at the bottom indicates: Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (55) Northwind 00:00:02 832 rows

5. List matching orders (OrderID) and all customers (Company Name).

Ans:

```
SELECT o.OrderID, c.CompanyName
FROM Orders o RIGHT OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

SQLQuery1.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (53))

```
--5. List matching orders (OrderID) and all customers (Company Name).

SELECT o.OrderID, c.CompanyName
FROM Orders o RIGHT OUTER JOIN Customers c
ON o.CustomerID=c.CustomerID;
```

100 %

Results Messages

	OrderID	CompanyName
1	10643	Alfreds Futterkiste
2	10692	Alfreds Futterkiste
3	10702	Alfreds Futterkiste
4	10835	Alfreds Futterkiste
5	10952	Alfreds Futterkiste
6	11011	Alfreds Futterkiste
7	10308	Ana Trujillo Emparedados y helados
8	10625	Ana Trujillo Emparedados y helados
9	10759	Ana Trujillo Emparedados y helados
10	10926	Ana Trujillo Emparedados y helados
11	10385	Antonio Moreno Taqueria
12	10507	Antonio Moreno Taqueria
13	10535	Antonio Moreno Taqueria
14	10573	Antonio Moreno Taqueria
15	10677	Antonio Moreno Taqueria
16	10682	Antonio Moreno Taqueria
17	10856	Antonio Moreno Taqueria
18	10355	Around the Horn
19	10383	Around the Horn
20	10453	Around the Horn
21	10558	Around the Horn
22	10707	Around the Horn
23	10741	Around the Horn

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (53) Northwind 00:00:00 832 rows

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