

Lab 8: Selects with Data Types

1. Select all data from the Orders table, ordered by OrderDate, newest date on top, for orders shipped between January 1997 and August 1997.

Answer:

```
SELECT *
FROM Orders
WHERE
    (YEAR(ShippedDate) = 1997 AND MONTH(ShippedDate) >= 1)
    OR
    (YEAR(ShippedDate) = 1997 AND MONTH(ShippedDate) <= 8)
ORDER BY OrderDate DESC;
```

LAB 08.sql - LCS-V...hwind (nwUser (52))

```
SELECT *
FROM Orders
WHERE
    (YEAR(ShippedDate) = 1997 AND MONTH(ShippedDate) >= 1)
    OR
    (YEAR(ShippedDate) = 1997 AND MONTH(ShippedDate) <= 8)
ORDER BY OrderDate DESC;
```

100 %

Results Messages

	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress
1	10801	BOLID	4	1997-12-29 00:00:00.000	1998-01-26 00:00:00.000	1997-12-31 00:00:00.000	2	97.09	Bólido Comidas preparadas	C/ Araquil, 67
2	10792	WOLZA	1	1997-12-23 00:00:00.000	1998-01-20 00:00:00.000	1997-12-31 00:00:00.000	3	23.79	Wolski Zajazd	ul. Filtrowa 68
3	10790	GOURL	6	1997-12-22 00:00:00.000	1998-01-19 00:00:00.000	1997-12-26 00:00:00.000	1	28.23	Gourmet Lanchonetes	Av. Brasil, 442
4	10789	FOLIG	1	1997-12-22 00:00:00.000	1998-01-19 00:00:00.000	1997-12-31 00:00:00.000	2	100.60	Folies gourmandes	184, chaussée de Toul
5	10786	QUEEN	8	1997-12-19 00:00:00.000	1998-01-16 00:00:00.000	1997-12-23 00:00:00.000	1	110.87	Queen Cozinha	Alameda dos Canários
6	10787	LAMAI	2	1997-12-19 00:00:00.000	1998-01-02 00:00:00.000	1997-12-26 00:00:00.000	1	249.93	La maison d'Asie	1 rue Alsace-Lorraine
7	10784	MAGAA	4	1997-12-18 00:00:00.000	1998-01-15 00:00:00.000	1997-12-22 00:00:00.000	3	70.09	Magezzini Alimentari Riuniti	Via Ludovico il Moro 21
8	10785	GROSR	1	1997-12-18 00:00:00.000	1998-01-15 00:00:00.000	1997-12-24 00:00:00.000	3	1.51	GROSELLA-Restaurante	5ª Ave. Los Palos Grar
9	10783	HANAR	4	1997-12-18 00:00:00.000	1998-01-15 00:00:00.000	1997-12-19 00:00:00.000	2	124.98	Hanari Carnes	Rua do Paço, 67
10	10782	CACTU	9	1997-12-17 00:00:00.000	1998-01-14 00:00:00.000	1997-12-22 00:00:00.000	3	1.10	Cactus Comidas para llevar	Cerrito 333
11	10781	WARTH	2	1997-12-17 00:00:00.000	1998-01-14 00:00:00.000	1997-12-19 00:00:00.000	3	73.16	Wartian Herkku	Torikatu 38
12	10778	BERGS	3	1997-12-16 00:00:00.000	1998-01-13 00:00:00.000	1997-12-24 00:00:00.000	1	6.79	Berglunds snabbköp	Berguvsvägen 8
13	10780	LILAS	2	1997-12-16 00:00:00.000	1997-12-30 00:00:00.000	1997-12-25 00:00:00.000	1	42.13	LILA-Supermercado	Carrera 52 con Ave. Bo
14	10776	ERNSH	1	1997-12-15 00:00:00.000	1998-01-12 00:00:00.000	1997-12-18 00:00:00.000	3	351.53	Ernst Handel	Kirchgasse 6
15	10775	THECR	7	1997-12-12 00:00:00.000	1998-01-09 00:00:00.000	1997-12-26 00:00:00.000	1	20.25	The Cracker Box	55 Grizzly Peak Rd.
16	10773	ERNSH	1	1997-12-11 00:00:00.000	1998-01-08 00:00:00.000	1997-12-16 00:00:00.000	3	96.43	Ernst Handel	Kirchgasse 6
17	10774	FOLKO	4	1997-12-11 00:00:00.000	1997-12-25 00:00:00.000	1997-12-12 00:00:00.000	1	48.20	Folk och få HB	Åkergatan 24
18	10772	LEHMS	3	1997-12-10 00:00:00.000	1998-01-07 00:00:00.000	1997-12-19 00:00:00.000	2	81.28	Lehmanns Marktstand	Mönsterstrasse 7

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (52) Northwind 00:00:00 398 rows

2. Select all data from the Orders table, ordered by OrderDate, newest date on top, for orders placed between July 1996 and January 1997.

Answer:

```
SELECT *
FROM Orders
WHERE
    (YEAR(OrderDate) = 1996 AND MONTH(OrderDate) >= 7)
    OR
    (YEAR(OrderDate) = 1997 AND MONTH(OrderDate) <= 1)
ORDER BY OrderDate DESC;
```

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is displayed in the top pane, and the results are shown in the bottom pane. The results table contains 185 rows of data, ordered by OrderDate in descending order. The columns include OrderID, CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipName, and ShipAddress.

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress
10432	SPLIR	3	1997-01-31 00:00:00.000	1997-02-14 00:00:00.000	1997-02-07 00:00:00.000	2	4.34	Split Rail Beer & Ale	P.O. Box 555
10431	BOTTM	4	1997-01-30 00:00:00.000	1997-02-13 00:00:00.000	1997-02-07 00:00:00.000	2	44.17	Bottom-Dollar Markets	23 Tsawassen Blvd.
10430	ERNSH	4	1997-01-30 00:00:00.000	1997-02-13 00:00:00.000	1997-02-03 00:00:00.000	1	458.78	Ernst Handel	Kirchgasse 6
10429	HUNGO	3	1997-01-29 00:00:00.000	1997-03-12 00:00:00.000	1997-02-07 00:00:00.000	2	56.63	Hungry Owl All-Night Grocers	8 Johnstown Road
10428	REGGC	7	1997-01-28 00:00:00.000	1997-02-25 00:00:00.000	1997-02-04 00:00:00.000	1	11.09	Reggiani Caseifici	Strada Provinciale 12
10427	PICCO	4	1997-01-27 00:00:00.000	1997-02-24 00:00:00.000	1997-03-03 00:00:00.000	2	31.29	Piccolo und mehr	Geislweg 14
10426	GALED	4	1997-01-27 00:00:00.000	1997-02-24 00:00:00.000	1997-02-06 00:00:00.000	1	18.69	Galeria del gastronómo	Rambla de Cataluña,
10425	LAMAI	6	1997-01-24 00:00:00.000	1997-02-21 00:00:00.000	1997-02-14 00:00:00.000	2	7.93	La maison d'Asie	1 rue Alsace-Lorraine
10424	MEREP	7	1997-01-23 00:00:00.000	1997-02-20 00:00:00.000	1997-01-27 00:00:00.000	2	370.61	Mère Paillard	43 rue St. Laurent
10423	GOURL	6	1997-01-23 00:00:00.000	1997-02-06 00:00:00.000	1997-02-24 00:00:00.000	3	24.50	Gourmet Lanchonettes	Av. Brasil, 442
10422	FRANS	2	1997-01-22 00:00:00.000	1997-02-19 00:00:00.000	1997-01-31 00:00:00.000	1	3.02	Franchi S.p.A.	Via Monte Bianco 34
10421	QUEDE	8	1997-01-21 00:00:00.000	1997-03-04 00:00:00.000	1997-01-27 00:00:00.000	1	99.23	Que Delicia	Rua da Panificadora,
10420	WELLI	3	1997-01-21 00:00:00.000	1997-02-18 00:00:00.000	1997-01-27 00:00:00.000	1	44.12	Wellington Importadora	Rua do Mercado, 12
10419	RICSU	4	1997-01-20 00:00:00.000	1997-02-17 00:00:00.000	1997-01-30 00:00:00.000	2	137.35	Richter Supermarkt	Starenweg 5
10418	QUICK	4	1997-01-17 00:00:00.000	1997-02-14 00:00:00.000	1997-01-24 00:00:00.000	1	17.55	QUICK-Stop	Taucherstraße 10
10417	SIMOB	4	1997-01-16 00:00:00.000	1997-02-13 00:00:00.000	1997-01-28 00:00:00.000	3	70.29	Simons bistro	Vinbæltet 34
10416	WARTH	8	1997-01-16 00:00:00.000	1997-02-13 00:00:00.000	1997-01-27 00:00:00.000	3	22.72	Wartian Herkku	Torikatu 38
10415	HUNGC	3	1997-01-15 00:00:00.000	1997-02-12 00:00:00.000	1997-01-24 00:00:00.000	1	0.20	Hungry Coyote Import Store	City Center Plaza 516
10414	FAMIA	2	1997-01-14 00:00:00.000	1997-02-11 00:00:00.000	1997-01-17 00:00:00.000	3	21.48	Familia Arquibaldo	Rua Orós, 92
10413	LAMAI	3	1997-01-14 00:00:00.000	1997-02-11 00:00:00.000	1997-01-16 00:00:00.000	2	95.66	La maison d'Asie	1 rue Alsace-Lorraine
10412	WARTH	8	1997-01-13 00:00:00.000	1997-02-10 00:00:00.000	1997-01-15 00:00:00.000	2	3.77	Wartian Herkku	Torikatu 38
10411	BOTTM	9	1997-01-10 00:00:00.000	1997-02-07 00:00:00.000	1997-01-21 00:00:00.000	3	23.65	Bottom-Dollar Markets	23 Tsawassen Blvd.
10410	BOTTM	3	1997-01-10 00:00:00.000	1997-02-07 00:00:00.000	1997-01-15 00:00:00.000	3	2.40	Bottom-Dollar Markets	23 Tsawassen Blvd.
10409	OCEAN	3	1997-01-09 00:00:00.000	1997-02-06 00:00:00.000	1997-01-14 00:00:00.000	1	29.83	Océano Atlántico Ltda.	Ing. Gustavo Moncad
10408	FOLIG	8	1997-01-08 00:00:00.000	1997-02-05 00:00:00.000	1997-01-14 00:00:00.000	1	11.26	Folies gourmandes	184, chaussée de To
10407	OTLIK	2	1997-01-07 00:00:00.000	1997-02-04 00:00:00.000	1997-01-30 00:00:00.000	2	91.48	Ottillies Käseladen	Mehrheimerstr. 369
10406	QUEEN	7	1997-01-07 00:00:00.000	1997-02-18 00:00:00.000	1997-01-13 00:00:00.000	1	108.04	Queen Cozinha	Alameda dos Canário
10405	LINOD	1	1997-01-06 00:00:00.000	1997-02-03 00:00:00.000	1997-01-22 00:00:00.000	1	34.82	LINO-Delicatesses	Ave. 5 de Mayo Porla

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (52) Northwind 00:00:00 185 rows

3. Select all data from the Orders table, for orders placed in January 1998.

Answer:

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SELECT *  
FROM Orders  
WHERE (YEAR(OrderDate) = 1998 AND MONTH(OrderDate) = 1);
```

LAB 08.sql - LCS-V...hwind (nwUser (54))*

```
SELECT *  
FROM Orders  
WHERE (YEAR(OrderDate) = 1998 AND MONTH(OrderDate) = 1);
```

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Results Messages

	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress
1	10808	OLDWO	2	1998-01-01 00:00:00.000	1998-01-29 00:00:00.000	1998-01-09 00:00:00.000	3	45.53	Old World Delicatessen	2743 Bering St.
2	10809	WELLI	7	1998-01-01 00:00:00.000	1998-01-29 00:00:00.000	1998-01-07 00:00:00.000	1	4.87	Wellington Importadora	Rua do Mercado
3	10810	LAUGB	2	1998-01-01 00:00:00.000	1998-01-29 00:00:00.000	1998-01-07 00:00:00.000	3	4.33	Laughing Bacchus Wine Cellars	2319 Elm St.
4	10811	LINOD	8	1998-01-02 00:00:00.000	1998-01-30 00:00:00.000	1998-01-08 00:00:00.000	1	31.22	LINO-Delicatesses	Ave. 5 de Mayo
5	10812	REGGC	5	1998-01-02 00:00:00.000	1998-01-30 00:00:00.000	1998-01-12 00:00:00.000	1	59.78	Reggiani Caseifici	Strada Provinciale
6	10813	RICAR	1	1998-01-05 00:00:00.000	1998-02-02 00:00:00.000	1998-01-09 00:00:00.000	1	47.38	Ricardo Adocicados	Av. Copacabana
7	10814	VICTE	3	1998-01-05 00:00:00.000	1998-02-02 00:00:00.000	1998-01-14 00:00:00.000	3	130.94	Victualles en stock	2, rue du Commerce
8	10815	SAVEA	2	1998-01-05 00:00:00.000	1998-02-02 00:00:00.000	1998-01-14 00:00:00.000	3	14.62	Save-a-lot Markets	187 Suffolk Ln.
9	10816	GREAL	4	1998-01-06 00:00:00.000	1998-02-03 00:00:00.000	1998-02-04 00:00:00.000	2	719.78	Great Lakes Food Market	2732 Baker Blvd
10	10817	KOENE	3	1998-01-06 00:00:00.000	1998-01-20 00:00:00.000	1998-01-13 00:00:00.000	2	306.07	Königlich Essen	Maubelstr. 90
11	10818	MAGAA	7	1998-01-07 00:00:00.000	1998-02-04 00:00:00.000	1998-01-12 00:00:00.000	3	65.48	Magazzini Alimentari Riuniti	Via Ludovico il Moro
12	10819	CACTU	2	1998-01-07 00:00:00.000	1998-02-04 00:00:00.000	1998-01-16 00:00:00.000	3	19.76	Cactus Comidas para llevar	Cerrito 333
13	10820	RATTC	3	1998-01-07 00:00:00.000	1998-02-04 00:00:00.000	1998-01-13 00:00:00.000	2	37.52	Rattlesnake Canyon Grocery	2817 Milton Dr.
14	10821	SPLIR	1	1998-01-08 00:00:00.000	1998-02-05 00:00:00.000	1998-01-15 00:00:00.000	1	36.68	Split Rail Beer & Ale	P.O. Box 555
15	10822	TRAIH	6	1998-01-08 00:00:00.000	1998-02-05 00:00:00.000	1998-01-16 00:00:00.000	3	7.00	Trail's Head Gourmet Provisioners	722 DaVinci Blvd
16	10823	LILAS	5	1998-01-09 00:00:00.000	1998-02-06 00:00:00.000	1998-01-13 00:00:00.000	2	163.97	LILA-Supermercado	Carrera 52 con A
17	10824	FOLKO	8	1998-01-09 00:00:00.000	1998-02-06 00:00:00.000	1998-01-30 00:00:00.000	1	1.23	Folk och få HB	Åkergatan 24
18	10825	DRACD	1	1998-01-09 00:00:00.000	1998-02-06 00:00:00.000	1998-01-14 00:00:00.000	1	79.25	Drachenblut Delikatessen	Walsenweg 21
19	10826	BLONP	6	1998-01-12 00:00:00.000	1998-02-09 00:00:00.000	1998-02-06 00:00:00.000	1	7.09	Blondel père et fils	24, place Kléber
20	10827	BONAP	1	1998-01-12 00:00:00.000	1998-01-26 00:00:00.000	1998-02-06 00:00:00.000	2	63.54	Bon app'	12, rue des Bour
21	10828	RANCH	9	1998-01-13 00:00:00.000	1998-01-27 00:00:00.000	1998-02-04 00:00:00.000	1	90.85	Rancho grande	Av. del Libertad
22	10829	ISLAT	9	1998-01-13 00:00:00.000	1998-02-10 00:00:00.000	1998-01-23 00:00:00.000	1	154.72	Island Trading	Garden House C
23	10830	TRADH	4	1998-01-13 00:00:00.000	1998-02-24 00:00:00.000	1998-01-21 00:00:00.000	2	81.83	Tradição Hipermercados	Av. Inês de Cast
24	10831	SANTG	3	1998-01-14 00:00:00.000	1998-02-11 00:00:00.000	1998-01-23 00:00:00.000	2	72.19	Santé Gourmet	Erling Skakkes c
25	10832	LAMAI	2	1998-01-14 00:00:00.000	1998-02-11 00:00:00.000	1998-01-19 00:00:00.000	2	43.26	La maison d'Asie	1 rue Alsace-Lor
26	10833	OTTIK	6	1998-01-15 00:00:00.000	1998-02-12 00:00:00.000	1998-01-23 00:00:00.000	2	71.49	Ottilies Käseladen	Mehrheimerstr. 7
27	10834	TRADH	1	1998-01-15 00:00:00.000	1998-02-12 00:00:00.000	1998-01-19 00:00:00.000	3	29.78	Tradição Hipermercados	Av. Inês de Cast
28	10835	ALFKI	1	1998-01-15 00:00:00.000	1998-02-12 00:00:00.000	1998-01-21 00:00:00.000	3	69.53	Alfred's Futterkiste	Obere Str. 57
29	10836	ERNSH	7	1998-01-16 00:00:00.000	1998-02-13 00:00:00.000	1998-01-21 00:00:00.000	1	411.88	Ernst Handel	Kirchgasse 6
30	10837	BERGS	9	1998-01-16 00:00:00.000	1998-02-13 00:00:00.000	1998-01-23 00:00:00.000	3	13.32	Berglunds snabbköp	Berguvsvägen 8
31	10838	LINOD	3	1998-01-19 00:00:00.000	1998-02-16 00:00:00.000	1998-01-23 00:00:00.000	3	59.28	LINO-Delicatesses	Ave. 5 de Mayo
32	10839	TRADH	3	1998-01-19 00:00:00.000	1998-02-16 00:00:00.000	1998-01-22 00:00:00.000	3	35.43	Tradição Hipermercados	Av. Inês de Cast

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (54) Northwind 00:00:00 55 rows

Ln 23 Col 65 Ch 59

4:03 PM 10/13/20

4. Select count of Orders shipped in 1996, 1997 and 1998. (one query containing all values) -> 2 columns (count and year), 3 rows (1 row per year)

Answer:

```
SELECT YEAR(ShippedDate) AS "Year", COUNT(*) AS "Number of Orders Shipped"
FROM Orders
GROUP BY YEAR(ShippedDate)
HAVING YEAR(ShippedDate) = 1996
OR      YEAR(ShippedDate) = 1997
OR      YEAR(ShippedDate) = 1998
ORDER BY YEAR(ShippedDate) ASC;
```

LAB 08.sql - LCS-V...hwind (nwUser (54))

```
SELECT YEAR(ShippedDate) AS "Year", COUNT(*) AS "Number of Orders Shipped"
FROM Orders
GROUP BY YEAR(ShippedDate)
HAVING YEAR(ShippedDate) = 1996
OR      YEAR(ShippedDate) = 1997
OR      YEAR(ShippedDate) = 1998
ORDER BY YEAR(ShippedDate) ASC;
```

100 %

Results Messages

	Year	Number of Orders Shipped
1	1996	143
2	1997	398
3	1998	268

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (54) Northwind 00:00:00 3 rows