CSE 581

**Lab 6: Selects with Data Types**

**Purpose:**

Do SQL selections against the *Northwind* database.

**Deliverables:**

Multiple screenshots, showing your NETID, query code, last lines of datasets & time stamp, as described through the lab.

Scripts that you used to carry out the actions.

Submit electronic version to Blackboard.

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

SELECT \*

FROM Orders

WHERE ShippedDate BETWEEN '1997-01-01' AND '1997-08-31' ORDER BY OrderDate DESC;

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

SELECT \*  
FROM Orders  
WHERE OrderDate BETWEEN '1996-07-01' AND '1997-01-31' ORDER BY OrderDate DESC;

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

SELECT \*

FROM Orders

WHERE YEAR(OrderDate) = 1998 AND MONTH(OrderDate) = 1;

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1. 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).

SELECT YEAR(ShippedDate) AS Year, COUNT(\*) AS Count FROM Orders  
WHERE YEAR(ShippedDate) IN (1996, 1997, 1998) GROUP BY YEAR(ShippedDate);

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1. Select all records from Employee table that any title related to “Sale”.

SELECT \*  
FROM Employees  
WHERE Title LIKE '%Sale%';

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1. Select all data from Orders table whose freight is more than 500.

SELECT \*  
FROM Orders WHERE Freight > 500;

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1. List all employees who have worked in company Northwind for more than 25 years.

SELECT \*

FROM Employees

WHERE DATEDIFF(YEAR, HireDate, GETDATE()) > 25;

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1. Calculate the average number of days it takes Northwind for all orders from “Ordered” (OrderDate) to “Shipped” (ShippedDate) status.

SELECT AVG(DATEDIFF(DAY, OrderDate, ShippedDate)) AS [Average no of Days] FROM Orders

WHERE ShippedDate IS NOT NULL;

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