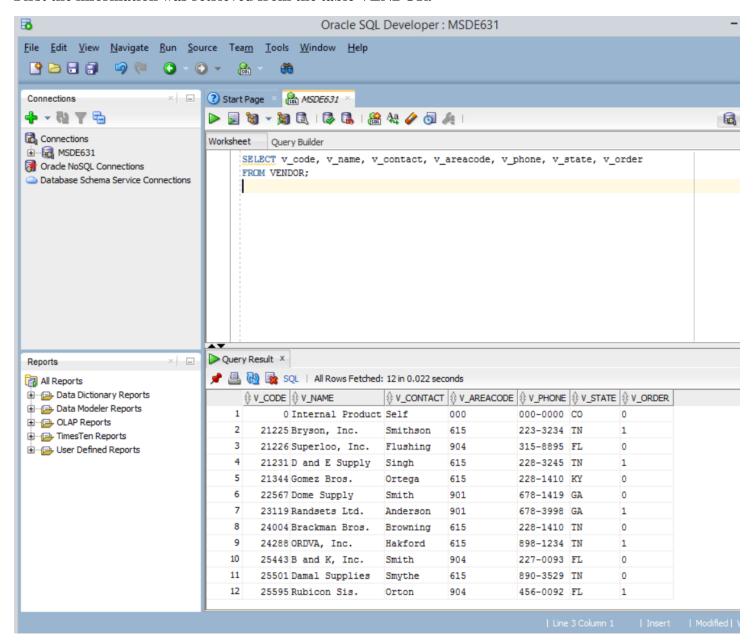
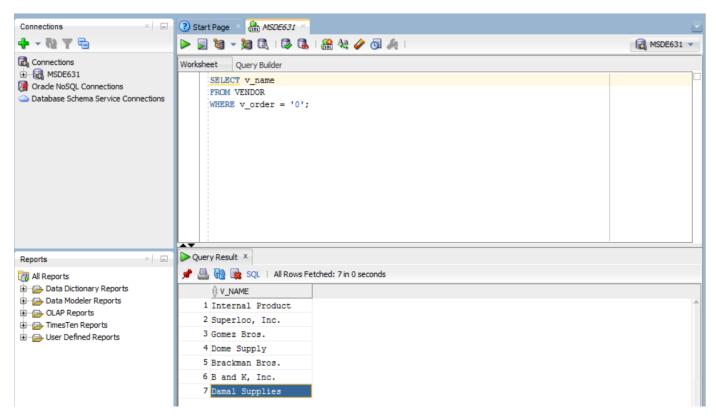
### **MSDE 631 – Week 1 – Lab**

#### First the information was retrieved from the table VENDOR.

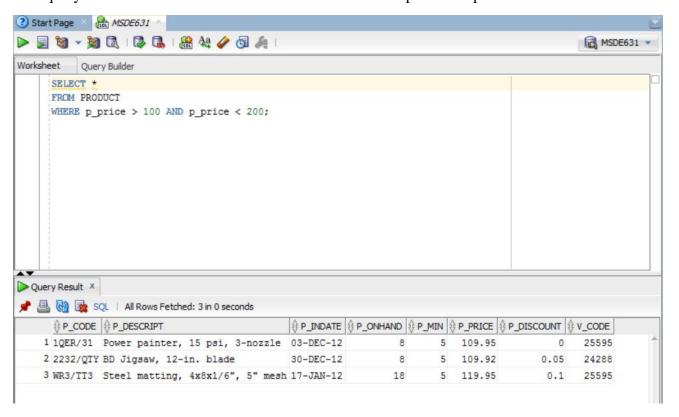




The above query returned the set of names of vendors from whom we have never ordered.

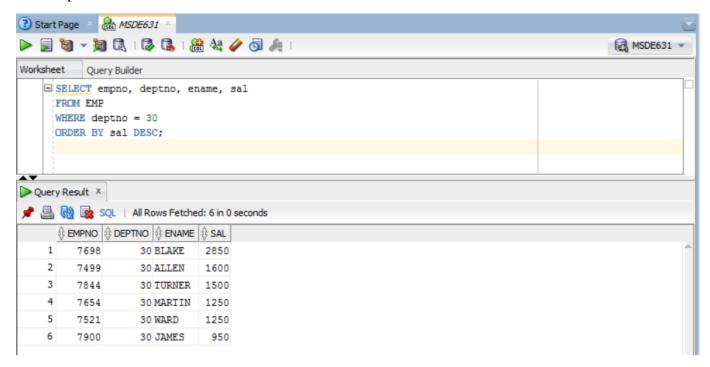
# **Using Logical Relationships to Restrict Selected Information:**

This query will return an answer set which consists of all the parts with prices between 100 and 200.

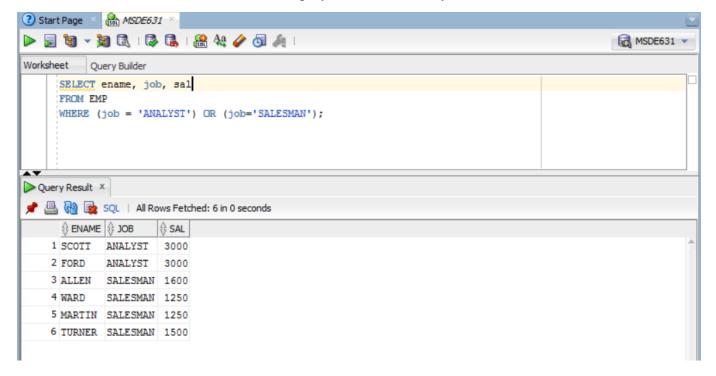


#### Order/Sort the result set data

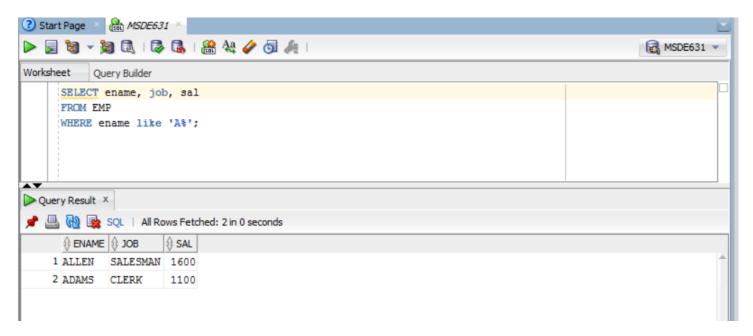
The result set of below queries show the employees for department 30 and sorted by the largest monthly salary at the top of the list.



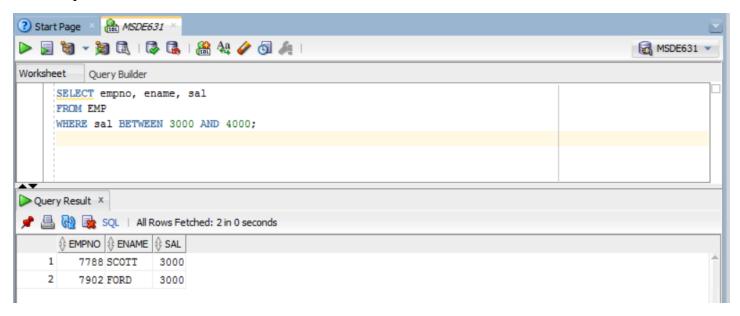
The next command would return a set of employees hired as "analysts" or "salesman".



To query all employees whose names begin with 'A', you would use the "%" wildcard as in:

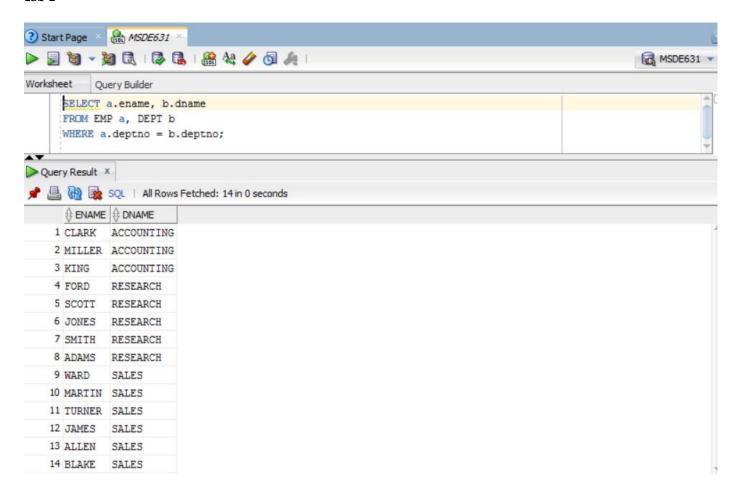


The following query returns employee information where the salary is greater than or equal to 3000 and less than or equal to 4000:



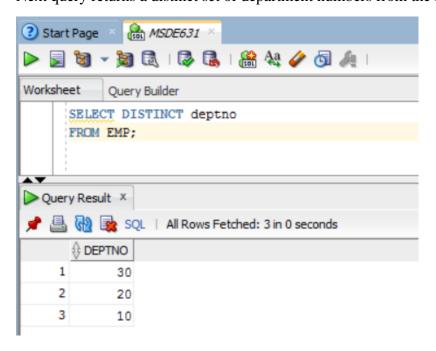
# **Querying Data from Multiple Tables**

Here we perform joint of two tables returning employees names and departments they work for.



# **Querying Unique Data**

Next query returns a distinct set of department numbers from the EMP table.

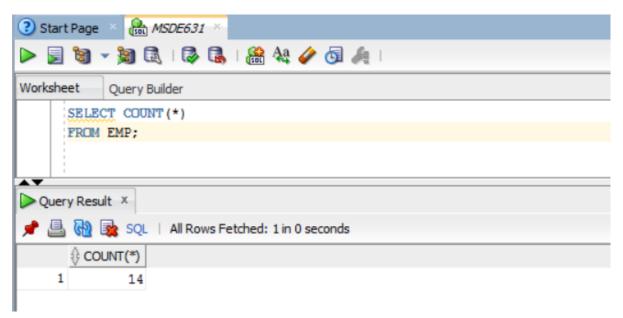


## **Aggregate Functions and Scalar functions**

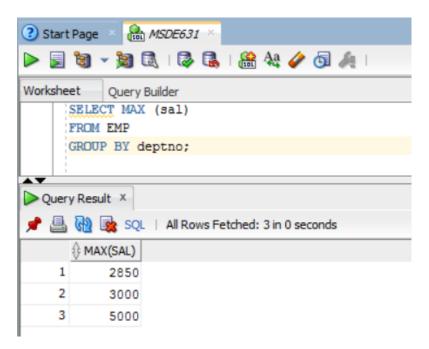
Below query would return the average salary from the EMP table.

```
| Start Page | MSDE631 |
```

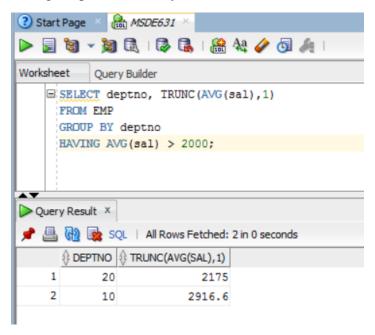
This would return the number of records in the EMP table.



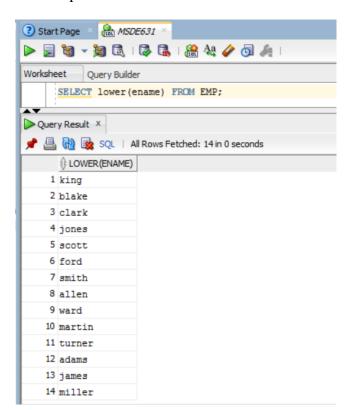
Next would return the maximum salary within (GROUP BY) each department in the EMP table.



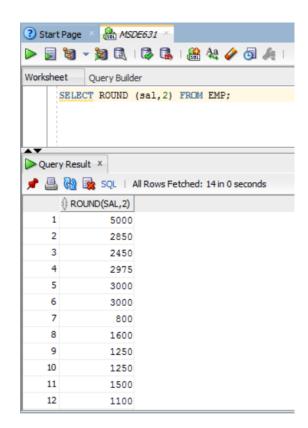
The HAVING clause further filters the data by the given criteria (here we only display records where the average department salary is more than 2,000.



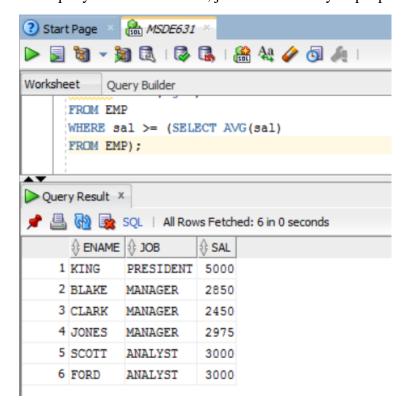
Next query returns employee names in lower case. decimal places.



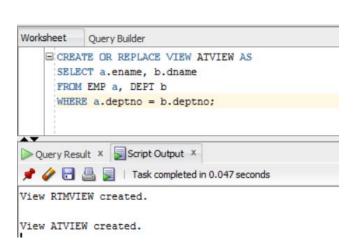
Below returns the salary column rounded to 2

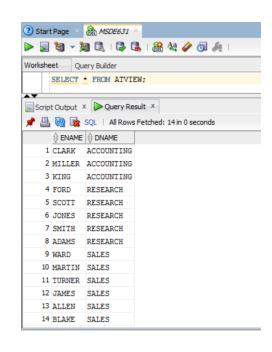


Next query returns the names, job title and salary of people making more than the average salary:



#### **Views**

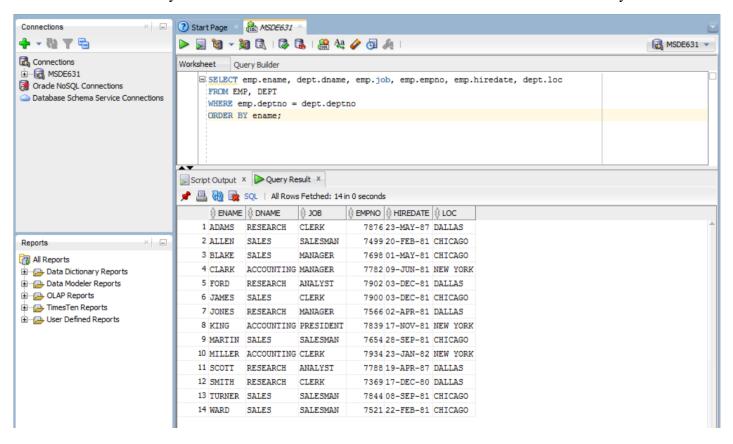




## **Challenge:**

### Write two queries on your own using the tables found in the MSDE631 schema.

1) The first query will join the emp and dept tables together. The columns to include are shown below. Sort the results by ename. Your result set should match the results shown below exactly:



2) For the second query, you might have to Google Oracle SQL commands to write the SQL to match the result set shown below. You will join the emp and dept tables together. The columns to include are shown below, notice that I changed the column names using column aliases. Sort the results descending order by the column named count\_of\_employees. Your result set should match the results shown below exactly:

