

Alex Merkley, Rylan J, Walker Nicholson, Jacob Forcht, Alex Weber
The Jawnsons

Assignment 9

1. Write the SQL code required to list the employee number, last name, first name, and middle initial of all employees whose last names start with Smith. In other words, the rows for both Smith and Smithfield should be included in the listing. Sort the results by employee number. Assume case sensitivity.

```
SELECT EMPLOYEE_NUMBER, LAST_NAME, FIRST_NAME, MIDDLE_INITIAL  
FROM EMPLOYEES  
WHERE LAST_NAME LIKE 'Smith%'  
ORDER BY EMPLOYEE_NUMBER
```

2. Using the EMPLOYEE, JOB, and PROJECT tables in the Ch07_ConstructCo database, write the SQL code that will join the EMPLOYEE and PROJECT tables using EMP_NUM as the common attribute. Display the attributes shown in the results presented in Figure P7.2, sorted by project value.

```
SELECT PROJ_NAME, PROJ_VALUE, PROJ_BALANCE, EMP_LNAME,  
EMP_INITIAL, JOB_CODE, JOB_DESCRIPTION, JOB_CHG_HOUR  
FROM PROJECT, EMPLOYEE, JOB  
WHERE EMPLOYEE.EMP_NUM = PROJECT.EMP_NUM  
AND JOB.JOB_CODE = EMPLOYEE.JOB_CODE  
ORDER BY PROJ_VALUE;
```

3. Write the SQL code that will produce the same information that was shown in Problem 2, but sorted by the employee's last name.

```
SELECT PROJ_NAME, PROJ_VALUE, PROJ_BALANCE, EMP_LNAME,  
EMP_INITIAL, JOB_CODE, JOB_DESCRIPTION, JOB_CHG_HOUR  
FROM PROJECT, EMPLOYEE, JOB  
WHERE EMPLOYEE.EMP_NUM = PROJECT.EMP_NUM  
AND JOB.JOB_CODE = EMPLOYEE.JOB_CODE  
ORDER BY EMP_LNAME;
```

6. Using the data in the ASSIGNMENT table, write the SQL code that will yield the total number of hours worked for each employee and the total charges stemming from those hours worked, sorted by employee number. The results of running that query are shown in Figure P7.6.

```
SELECT A.EMP_NUM, E.EMP_LNAME, ROUND(SUM(A.ASSIGN_HOURS),1) AS  
SumOfAssign_Hours, ROUND(SUM(A.ASSIGN_CHARGE),1) AS  
SumOfAssign_charge  
FROM EMPLOYEE E, ASSIGNMENT A
```

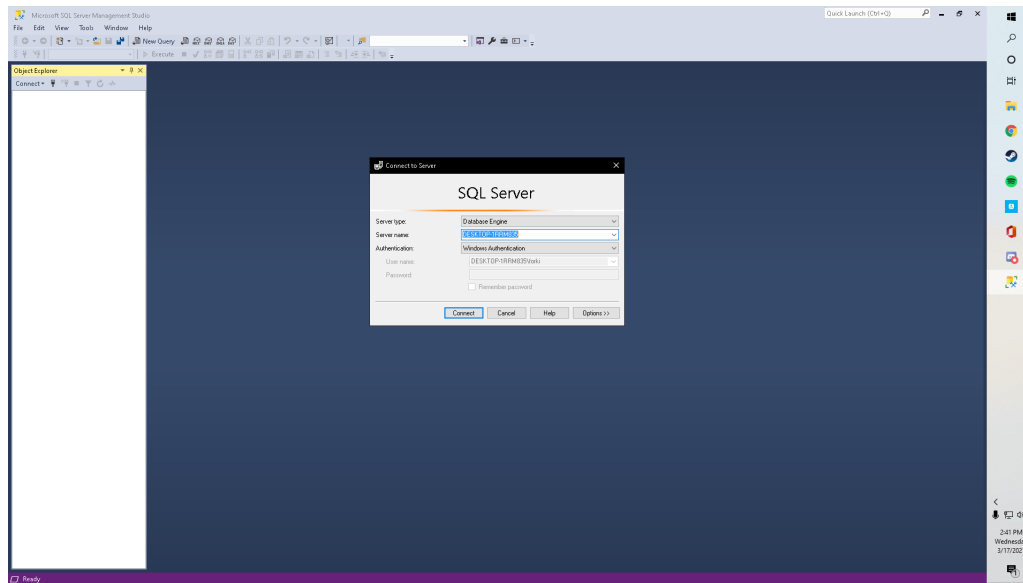
```
WHERE E.EMP_NUM = A.EMP_NUM  
GROUP BY A.EMP_NUM = E.EMP_LNAME  
ORDER BY A.EMP_NUM;
```

7. Write a query to produce the total number of hours and charges for each of the projects represented in the ASSIGNMENT table, sorted by project number. The output is shown in Figure P7.7.

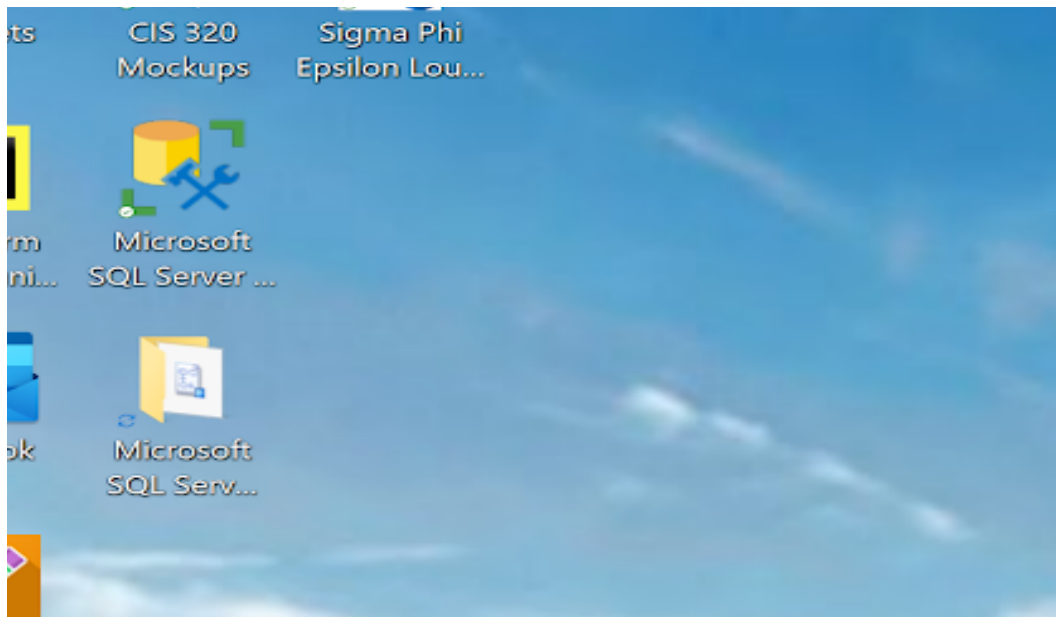
```
SELECT PROJ_NUM, SUM (ASSIGN_HOURS) AS 'SumOfASSIGN_HOURS',  
SUM(ASSIGN_CHARGE) AS 'SUMOfASSIGNCHARGE'  
FROM ASSIGNMENT  
GROUP BY PROJ_NUM;
```

Proof Of downloaded SQL Server:

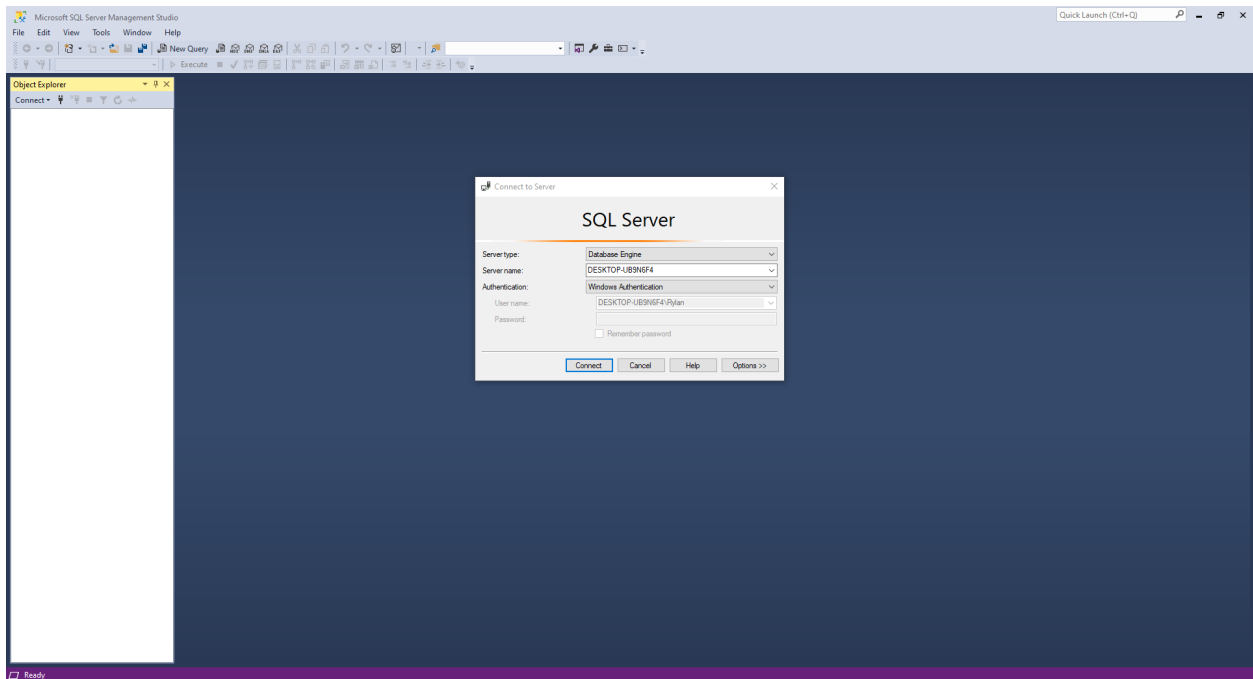
Jacob forcht-



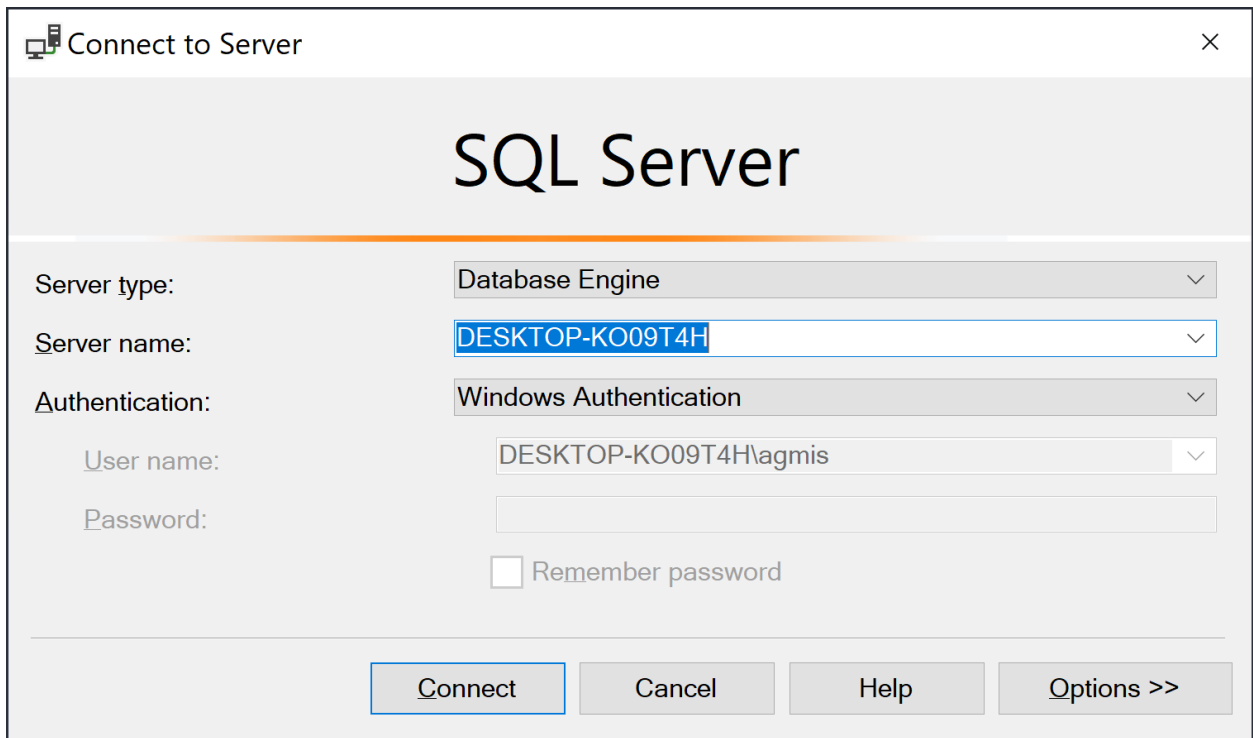
Alex Weber



Rylan Jaquess



Alex Merkley



Walker Nicholson

