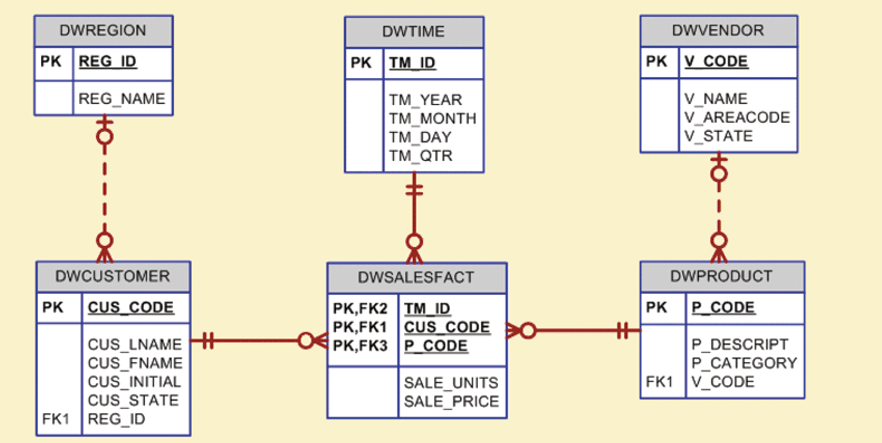
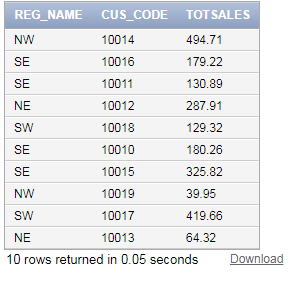
**Lab 8**

**Create a new workspace and use the dwsalesfact script provided in eLearning. For each problem, enter your query and attach a screen shot of the result set. Each problem is worth 2 points.**



**1a. Write the SQL command to list the total sales by region and customer.**



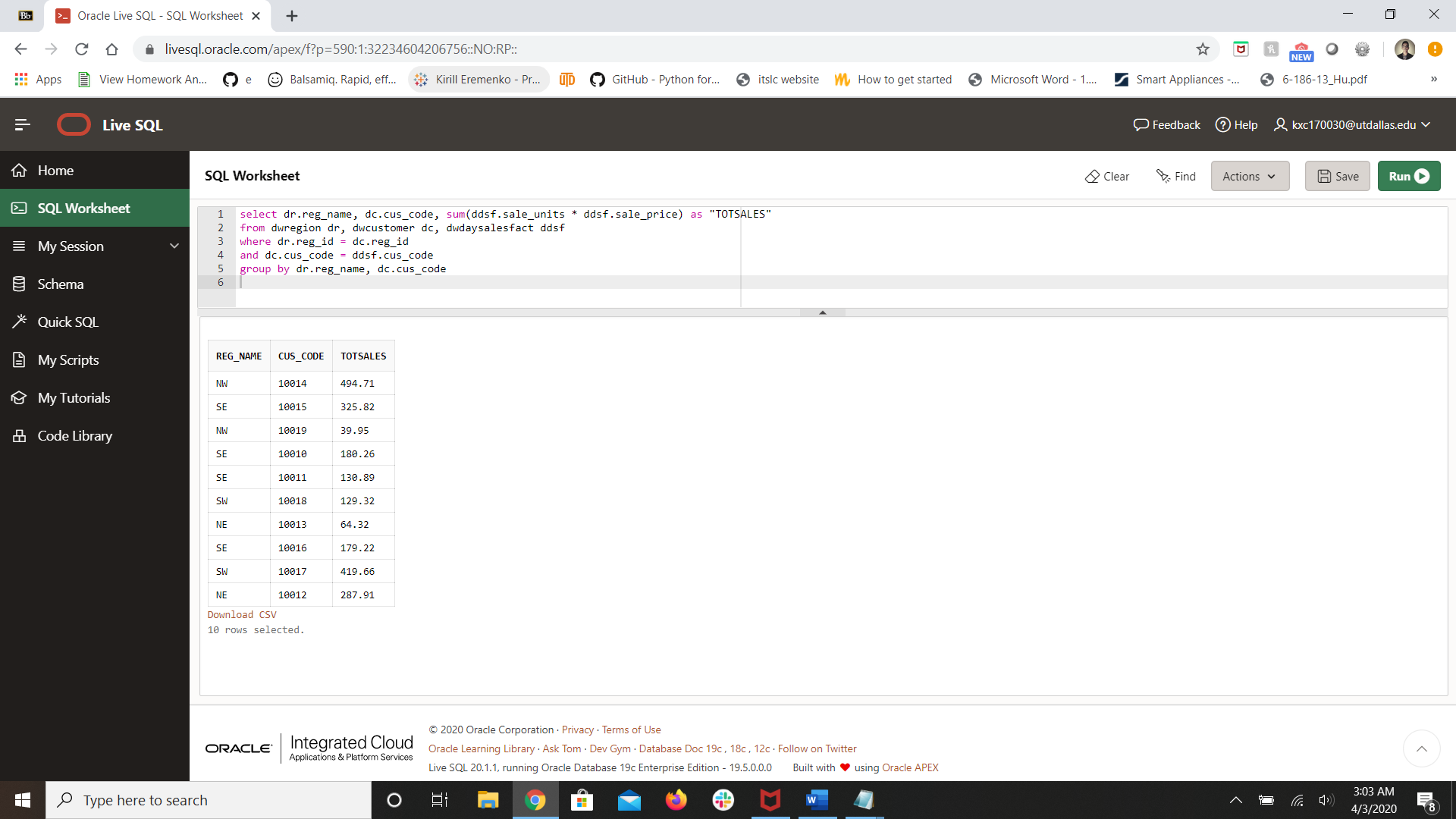
**select dr.reg\_name, dc.cus\_code, sum(ddsf.sale\_units \* ddsf.sale\_price) as "TOTSALES"**

**from dwregion dr, dwcustomer dc, dwdaysalesfact ddsf**

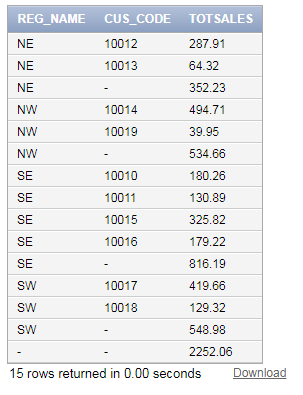
**where dr.reg\_id = dc.reg\_id**

**and dc.cus\_code = ddsf.cus\_code**

**group by dr.reg\_name, dc.cus\_code**



**1b. Modify the SQL command to include subtotals by region and a grand total for all sales.**



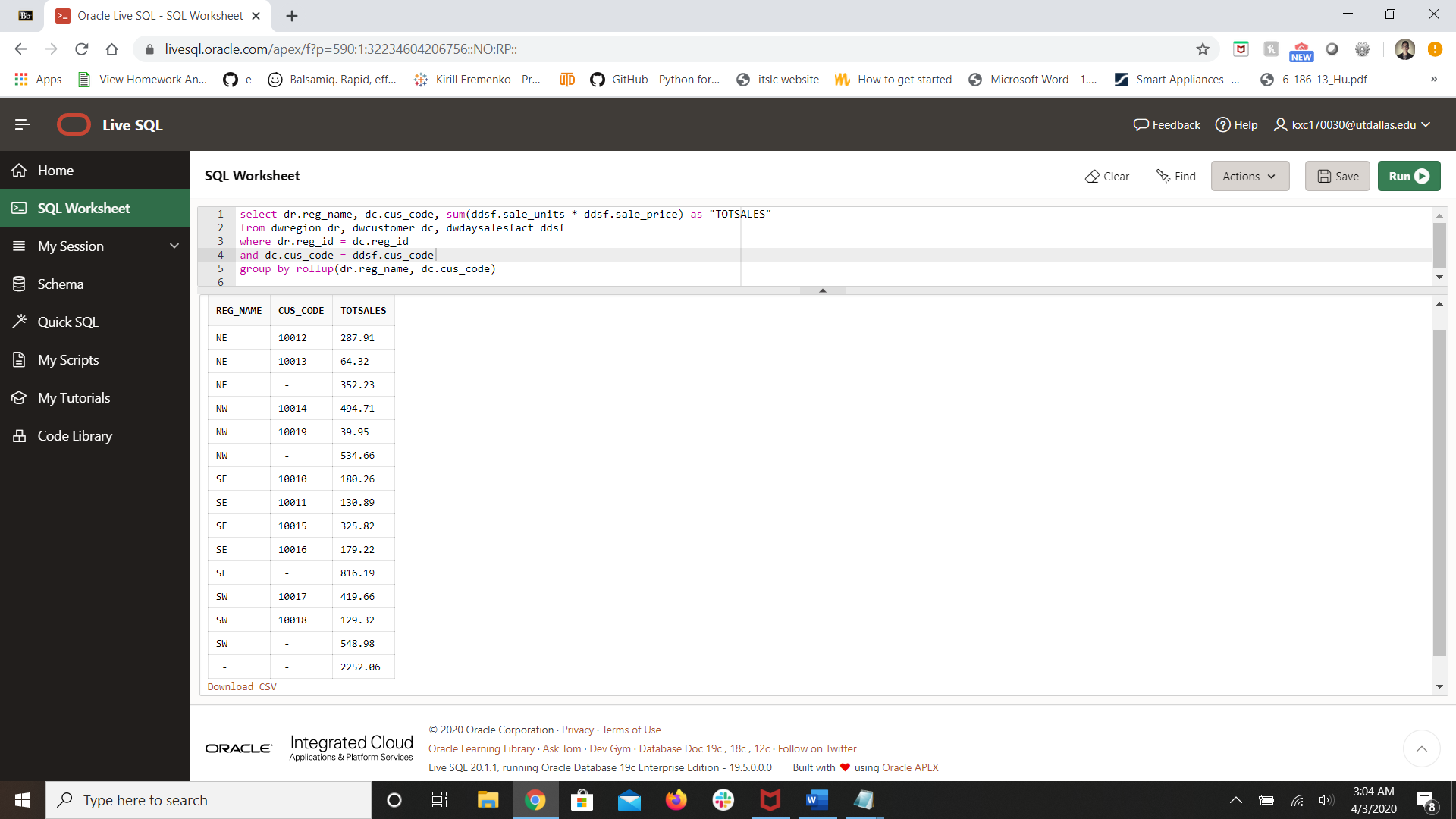
**select dr.reg\_name, dc.cus\_code, sum(ddsf.sale\_units \* ddsf.sale\_price) as "TOTSALES"**

**from dwregion dr, dwcustomer dc, dwdaysalesfact ddsf**

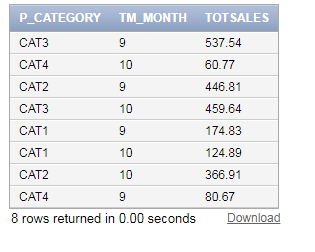
**where dr.reg\_id = dc.reg\_id**

**and dc.cus\_code = ddsf.cus\_code**

**group by rollup(dr.reg\_name, dc.cus\_code)**



**2a. Write the SQL command to list the total sales by month and product category.**



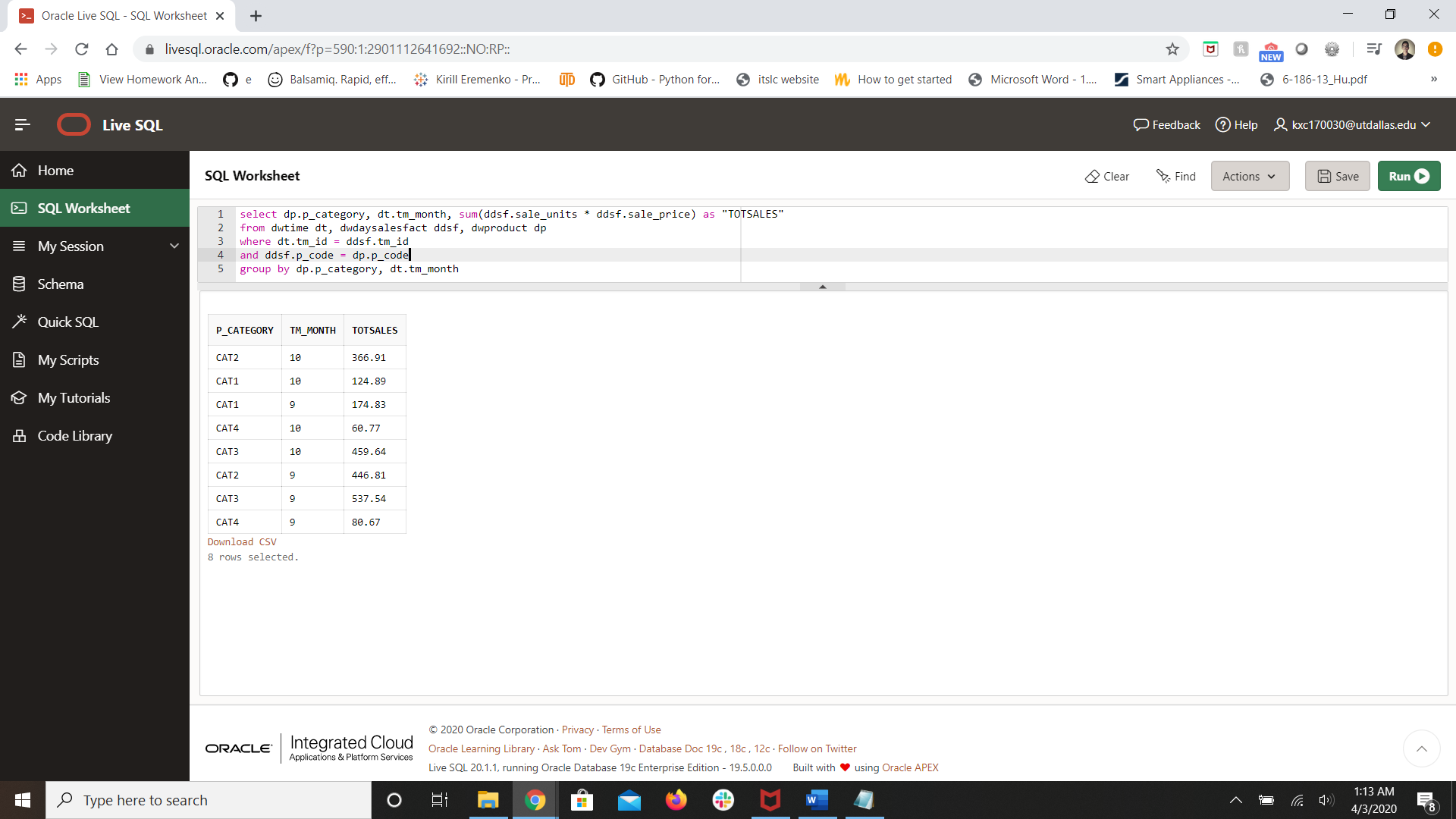
**select dp.p\_category, dt.tm\_month, sum(ddsf.sale\_units \* ddsf.sale\_price) as "TOTSALES"**

**from dwtime dt, dwdaysalesfact ddsf, dwproduct dp**

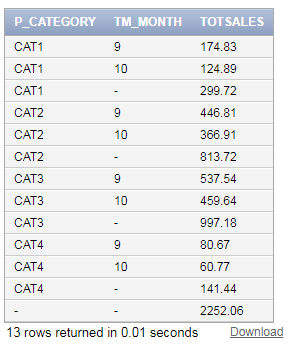
**where dt.tm\_id = ddsf.tm\_id**

**and ddsf.p\_code = dp.p\_code**

**group by dp.p\_category, dt.tm\_month**



**2b. Modify the SQL command to include subtotals by month and a grand total for all sales.**



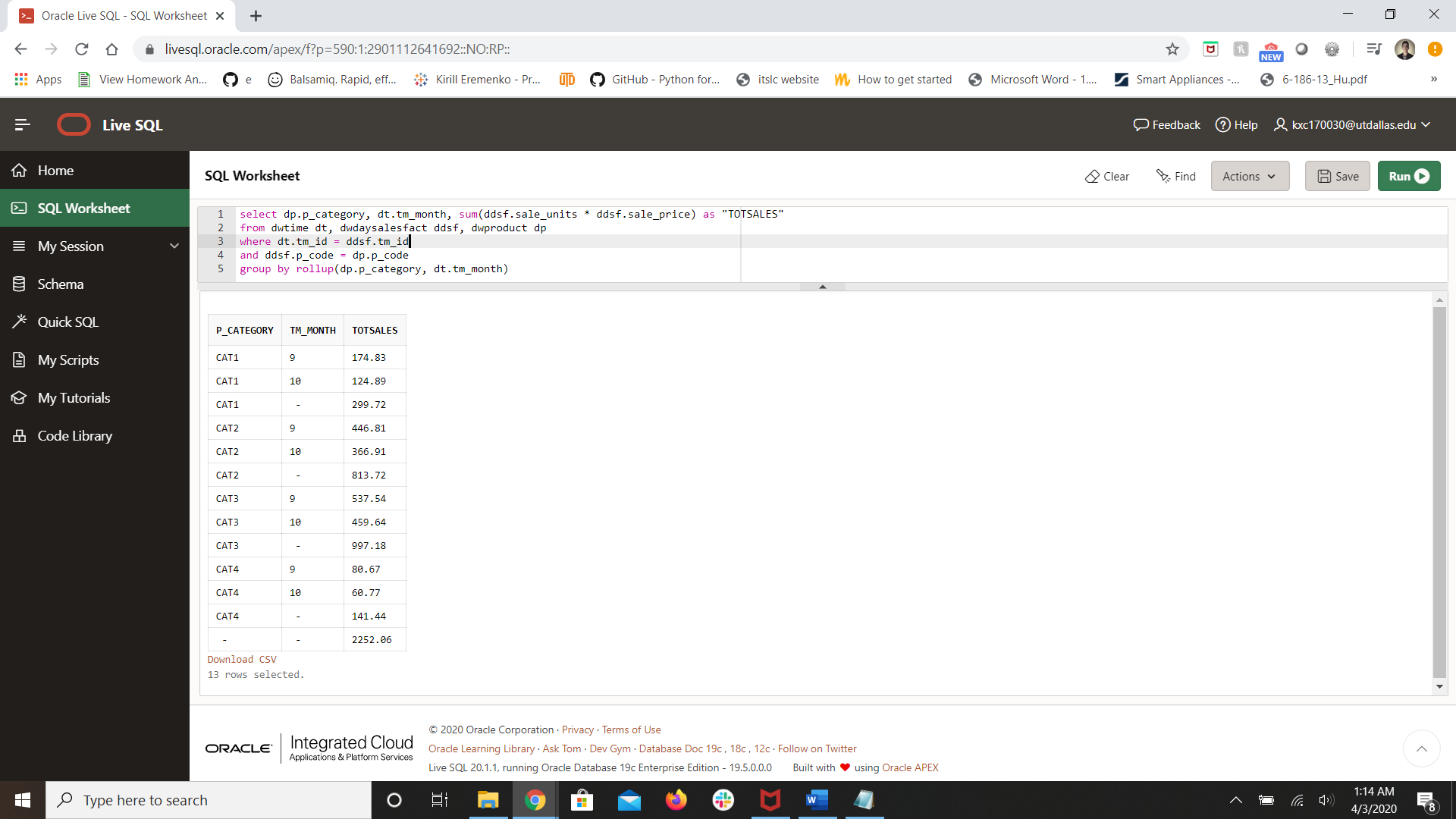
**select dp.p\_category, dt.tm\_month, sum(ddsf.sale\_units \* ddsf.sale\_price) as "TOTSALES"**

**from dwtime dt, dwdaysalesfact ddsf, dwproduct dp**

**where dt.tm\_id = ddsf.tm\_id**

**and ddsf.p\_code = dp.p\_code**

**group by rollup(dp.p\_category, dt.tm\_month)**



1. **Show the ranking of products by total sales. Hint: you will need to use a subquery to rollup the total sales. I have provided a query. Modify it to get the results.**

WITH top\_product AS

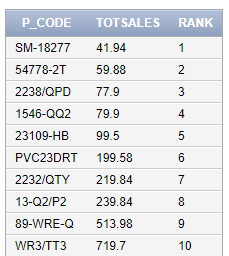
(SELECT p\_code, sum(sale\_units \* sale\_price) as totsales

FROM dwdaysalesfact

group by p\_code)

SELECT p\_code, totsales, ???

FROM top\_product



**WITH top\_product AS**

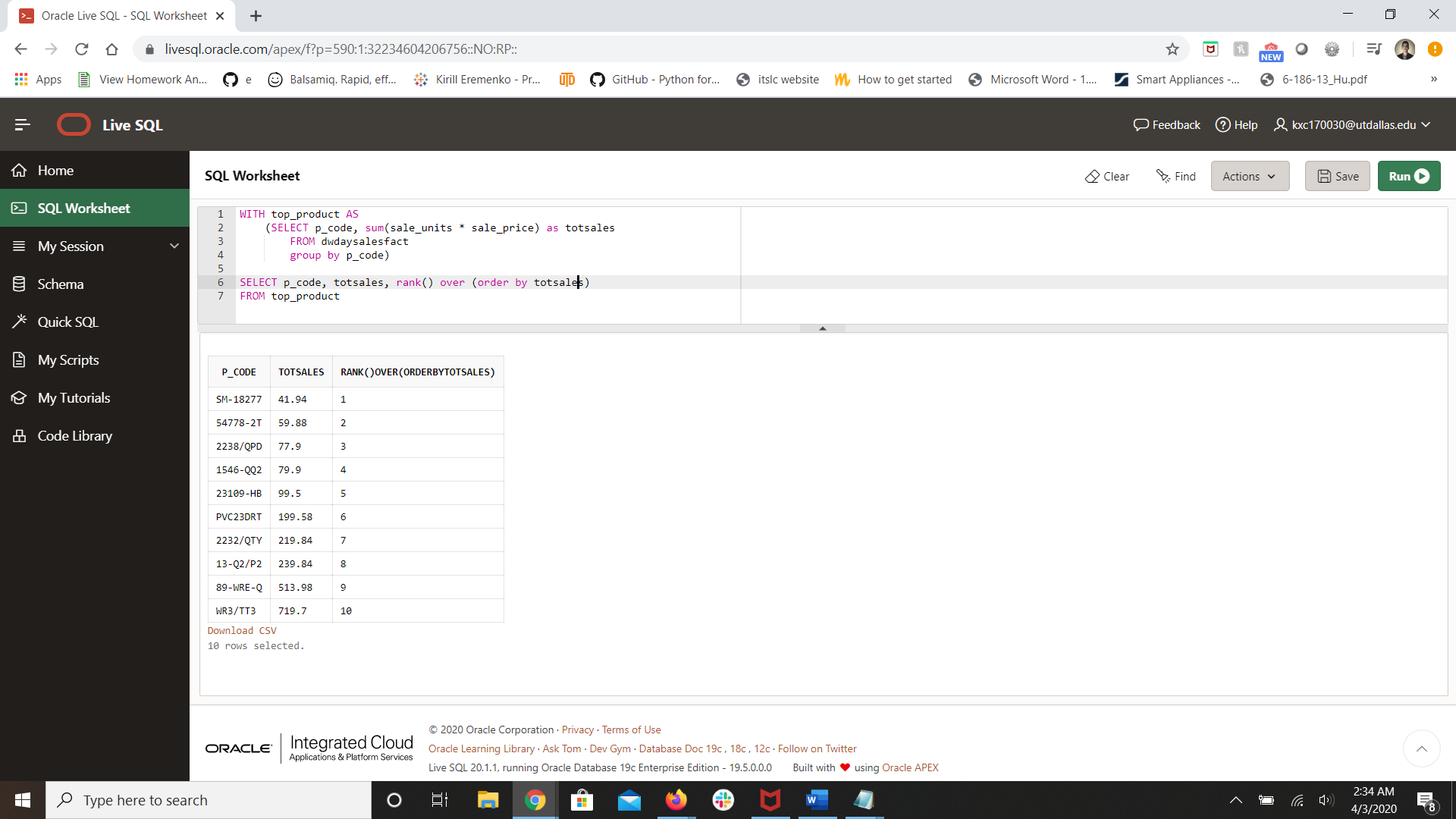
**(SELECT p\_code, sum(sale\_units \* sale\_price) as totsales**

**FROM dwdaysalesfact**

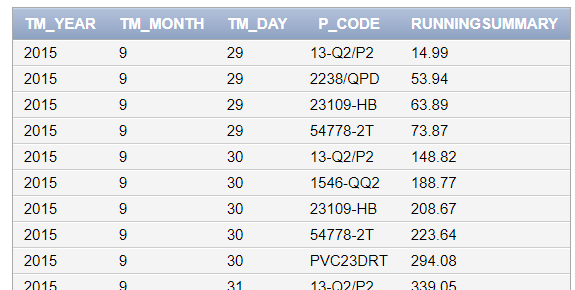
**group by p\_code)**

**SELECT p\_code, totsales, rank() over (order by totsales)**

**FROM top\_product**



1. **Provide a running summary of sales in order by day for year 2015 and month 9. Display the product code the year, the month, the day, and the running summary.**



**select dt.tm\_year, dt.tm\_month, dt.tm\_day, ddsf.p\_code,**

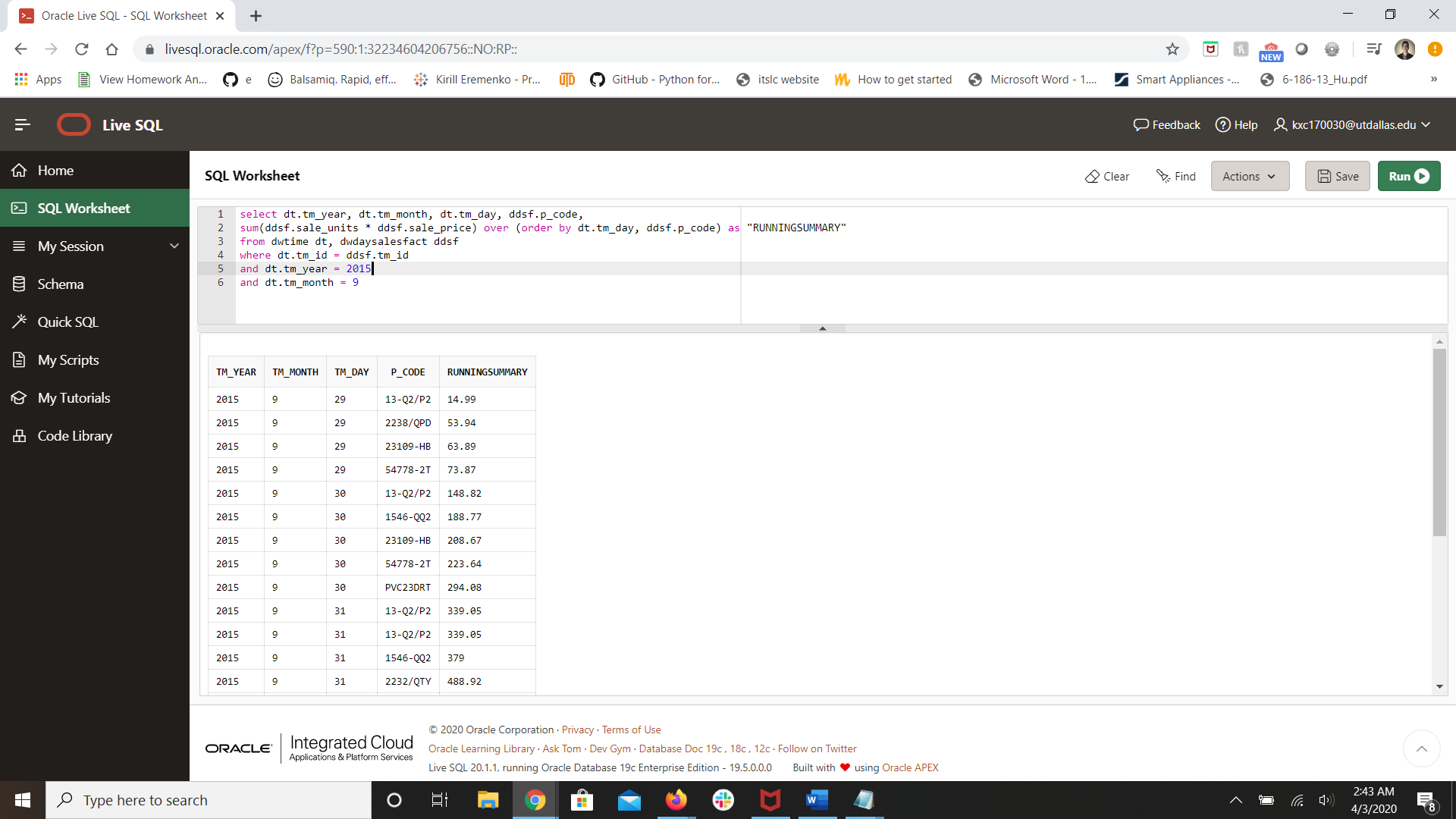
**sum(ddsf.sale\_units \* ddsf.sale\_price) over (order by dt.tm\_day, ddsf.p\_code) as "RUNNINGSUMMARY"**

**from dwtime dt, dwdaysalesfact ddsf**

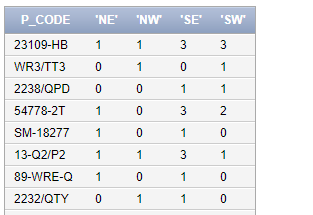
**where dt.tm\_id = ddsf.tm\_id**

**and dt.tm\_year = 2015**

**and dt.tm\_month = 9**



1. **Show the product sales by region in a cross tabular format.**



**select \* from**

**( select p\_code, reg\_name**

**from dwregion dr, dwcustomer dc, dwdaysalesfact ddsf**

**where dr.reg\_id = dc.reg\_id**

**and dc.cus\_code = ddsf.cus\_code**

**)**

**pivot**

**(**

**count(reg\_name)**

**for reg\_name in ('NE', 'NW', 'SE', 'SW')**

**)**

