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# Assignment 4: Using a Dimensional Model with the SaleCO Data Warehouse

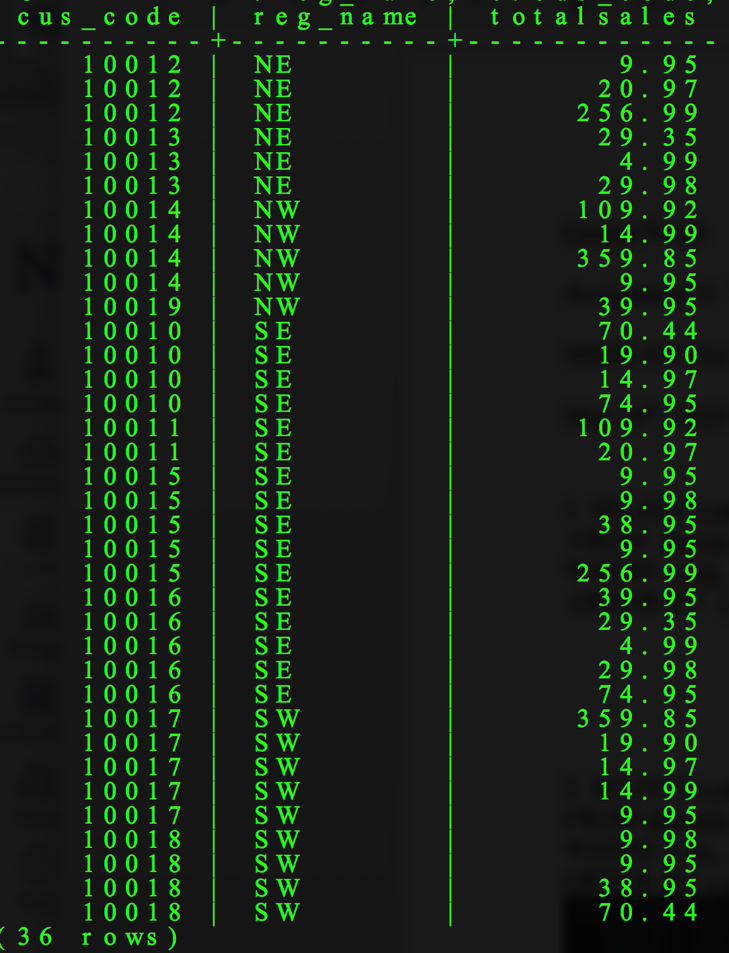
MSDS 420 Database Systems and Data Preparation

May 24th, 2020

1. SELECT c.cus\_code,r.reg\_name, (f.sale\_units\*f.sale\_price) as Totalsales

FROM dwcustomer as c, dwregion as r ,dwdaysalesfact as f WHERE c.reg\_id = r.reg\_id and c.cus\_code= f.cus\_code

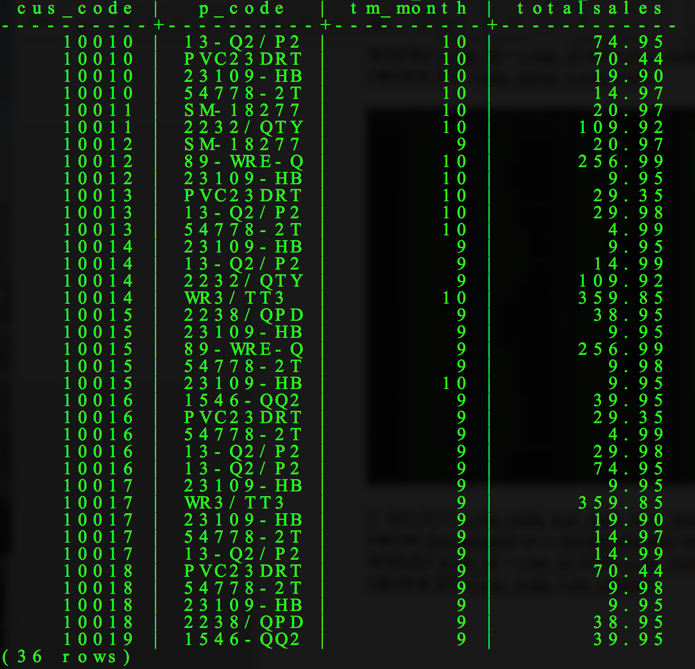
ORDER BY r.reg\_name, c.cus\_code;



2. SELECT c.cus\_code, p.p\_code, t.tm\_month, (p.sale\_units\*p.sale\_price) as Totalsales FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t

WHERE p.tm\_id = t.tm\_id AND c.cus\_code = p.cus\_code

ORDER BY c.cus\_code, t.tm\_month;

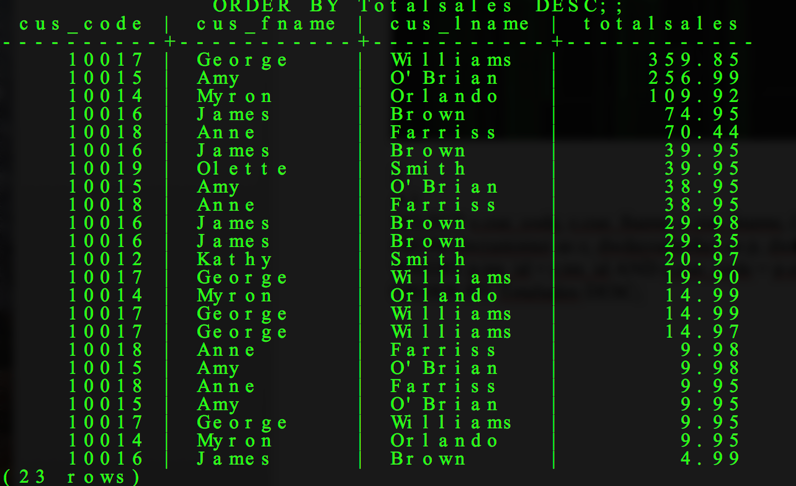


3.

A.)

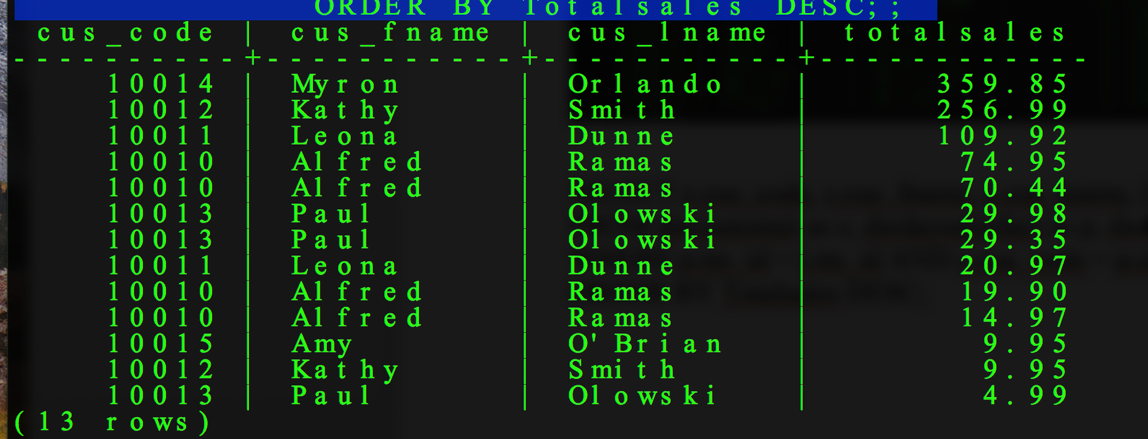
SELECT c.cus\_code, c.cus\_fname, c.cus\_lname, (p.sale\_units\*p.sale\_price) as Totalsales FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t

WHERE p.tm\_id = t.tm\_id AND c.cus\_code = p.cus\_code AND t.tm\_month = 9 ORDER BY Totalsales DESC;



B.) SELECT c.cus\_code, c.cus\_fname, c.cus\_lname, (p.sale\_units\*p.sale\_price) as Totalsales FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t

WHERE p.tm\_id = t.tm\_id AND c.cus\_code = p.cus\_code AND t.tm\_month = 10 ORDER BY Totalsales DESC;



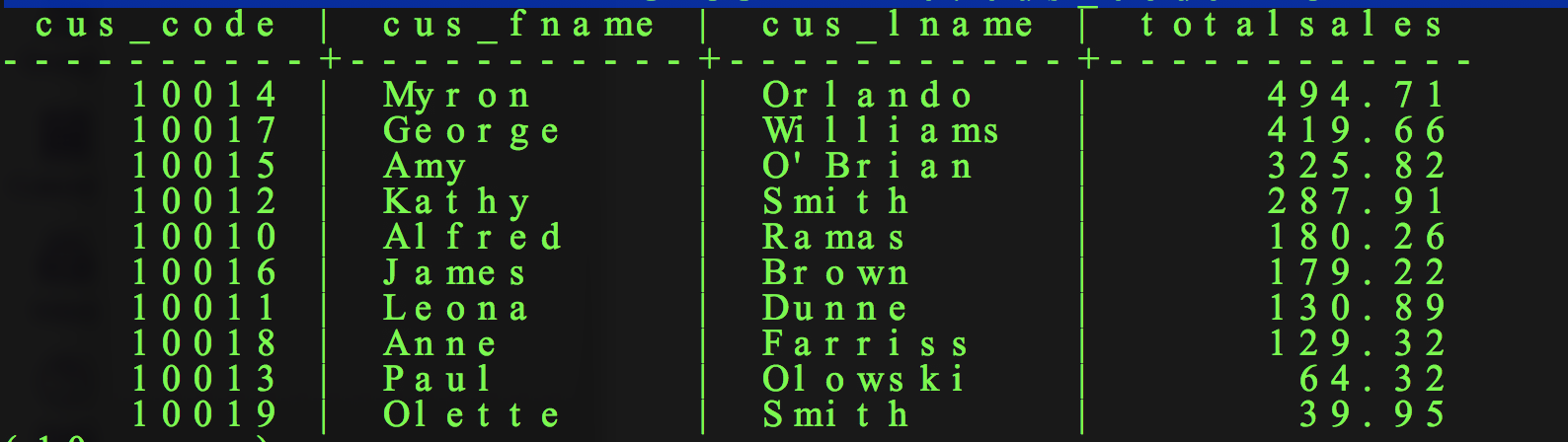
C.)

SELECT c.cus\_code, c.cus\_fname, c.cus\_lname,SUM (p.sale\_units\*p.sale\_price) as Totalsales

FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t

WHERE p.tm\_id = t.tm\_id AND c.cus\_code = p.cus\_code AND t.tm\_month IN (9,10) GROUP BY c.cus\_code

ORDER BY Totalsales DESC;



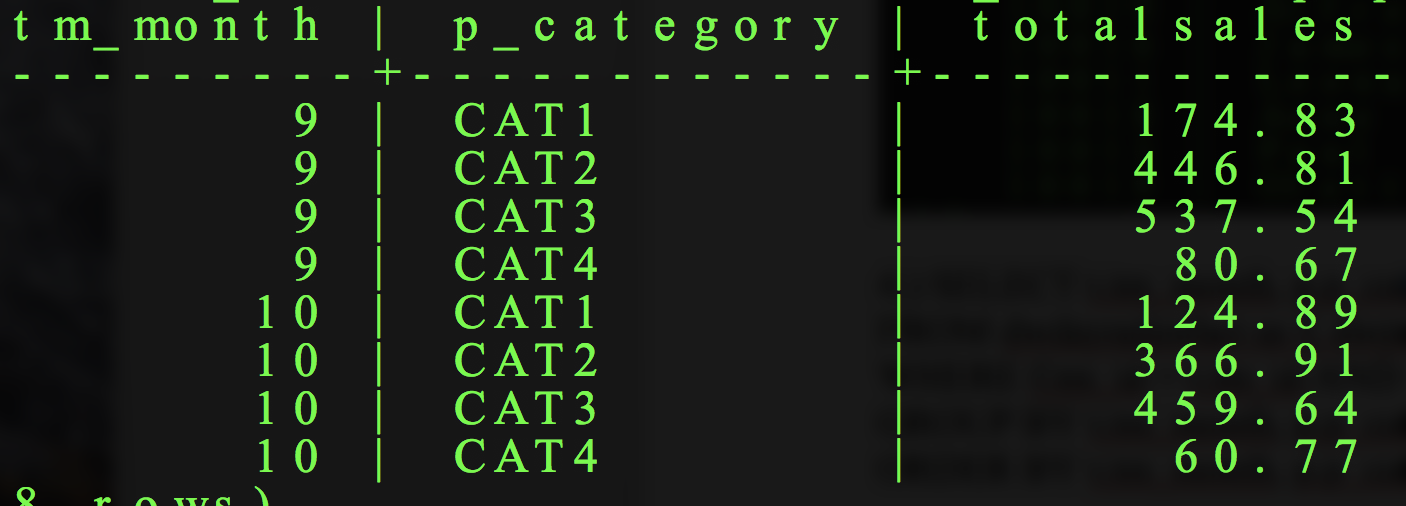
4.) SELECT t.tm\_month, p.p\_category, SUM(f.sale\_units\*f.sale\_price) as Totalsales

FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE f.tm\_id = t.tm\_id AND f.p\_code = p.p\_code

GROUP BY t.tm\_month, p.p\_category

ORDER BY t.tm\_month, p.p\_category;



5.)

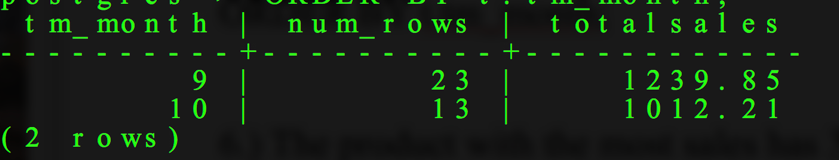
SELECT t.tm\_month, count(p.p\_code) as num\_rows, SUM(f.sale\_units\*f.sale\_price) as Totalsales

FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE f.tm\_id = t.tm\_id AND f.p\_code = p.p\_code

GROUP BY t.tm\_month

ORDER BY t.tm\_month;



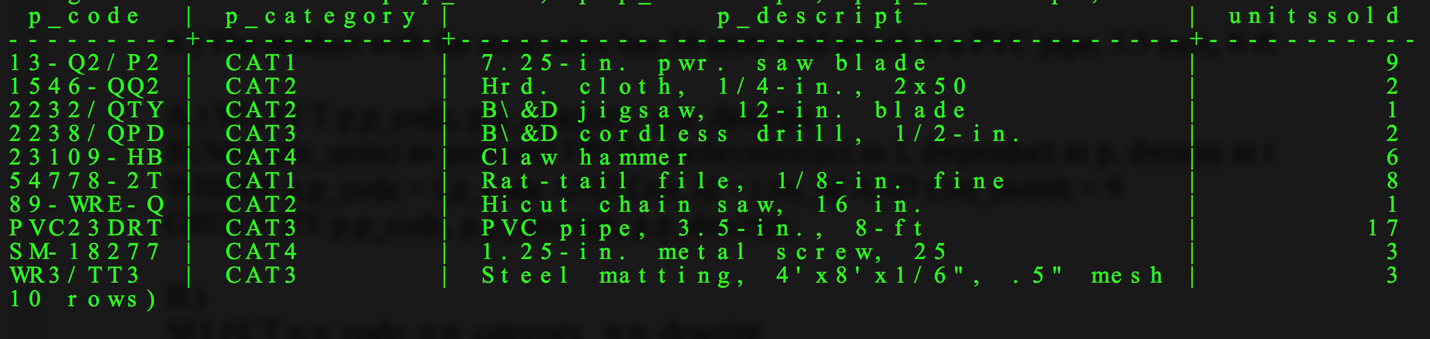
6.) The product with the most sales has 34 units sold which is a PVC pipe, 3.5 inch, 8-ft.

A.) SELECT p.p\_code, p.p\_category, p.p\_descript,

SUM(f.sale\_units) as unitssold FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE p.p\_code = f.p\_code AND f.tm\_id = t.tm\_id AND t.tm\_month = 9

GROUP BY p.p\_code, p.p\_descript, p.p\_descript;



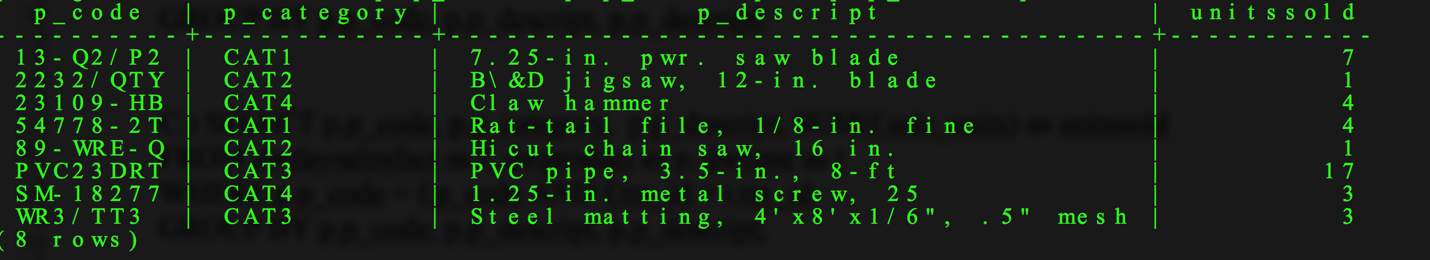
B.)

SELECT p.p\_code, p.p\_category, p.p\_descript,

SUM(f.sale\_units) as unitssold FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE p.p\_code = f.p\_code AND f.tm\_id = t.tm\_id AND t.tm\_month =10

GROUP BY p.p\_code, p.p\_descript, p.p\_descript;

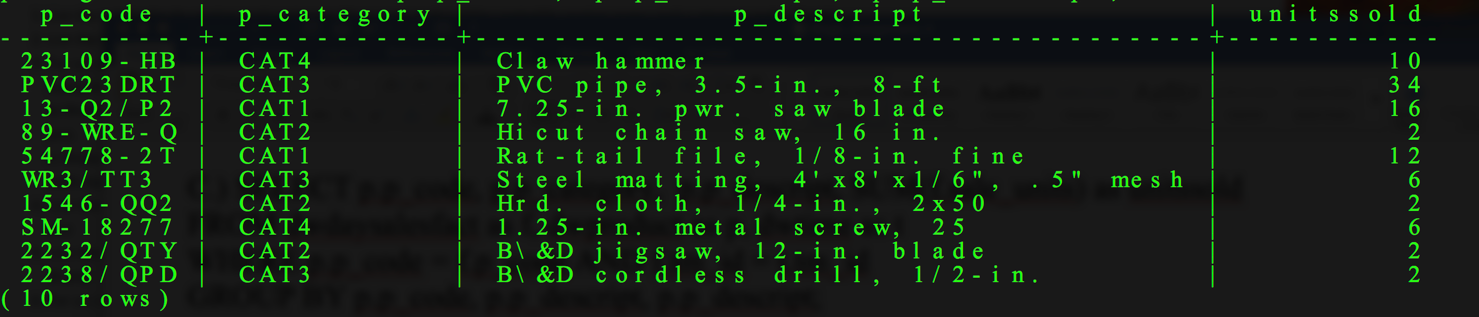


C.) SELECT p.p\_code, p.p\_category, p.p\_descript, SUM(f.sale\_units) as unitssold

FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE p.p\_code = f.p\_code AND f.tm\_id = t.tm\_id

GROUP BY p.p\_code, p.p\_descript, p.p\_descript;



7.)

SELECT t.tm\_month, p.p\_category, p.p\_descript, count(p.p\_descript) as num\_rows, SUM(f.sale\_units \* f.sale\_price) as totalsales

FROM dwdaysalesfact as f, dwproduct as p, dwtime as t

WHERE p.p\_code = f.p\_code AND f.tm\_id = t.tm\_id

GROUP BY t.tm\_month, p.p\_category, p.p\_descript

ORDER BY t.tm\_month, p.p\_category, p.p\_descript;

