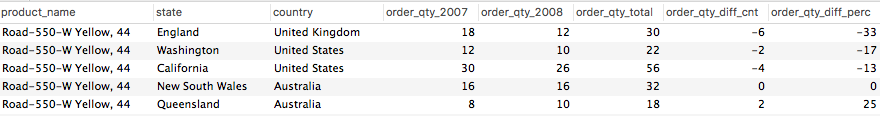
Analysis

## 1. Top 5 states for order quantity between 2007 and 2008 for the product, 800 (Road-550-W Yellow, 44), together with a gain/loss percentage of 2008 when compared to 2007



*Reference SQL query: Query 1*

Findings & Business Decisions  
*[Your findings and business decisions/suggestions]*

## 2.

*/\**

*List the top 10 customers in terms of purchases and group by year*

*\*/*

**SELECT c**.**customer\_skey**, **c**.**last\_name**,**c**.**first\_name**, **c**.**gender**, *sum*(f.**extended\_amount**) **as** total\_amt,d.**the\_year**

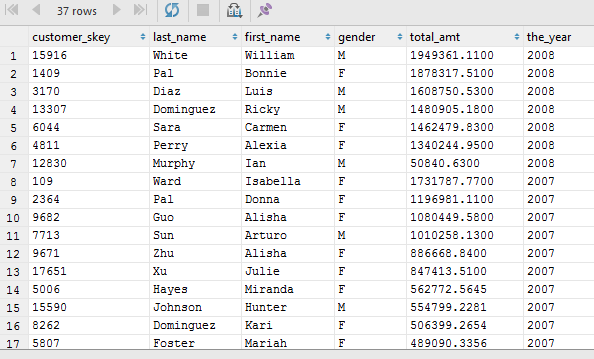
**FROM** fact\_sales F, dim\_customer **C**, dim\_date D

**WHERE** F.**customer\_skey**=**C**.**customer\_skey AND** F.**date\_skey**=D.**date\_skey**

**GROUP BY** D.**the\_year**, d.**the\_month**

**ORDER BY d.the\_year desc,** total\_amt **desc**

limit 10;

**

*/\**

*which gender purchased the highest -group by year*

*\*/*

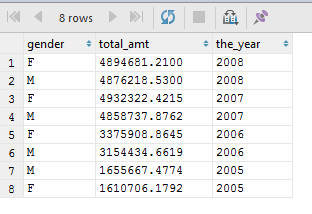
**SELECT c**.**gender**, *sum*(f.**extended\_amount**) **as** total\_amt,d.**the\_year**

**FROM** fact\_sales F, dim\_customer **C**, dim\_date D

**WHERE** F.**customer\_skey**=**C**.**customer\_skey AND** F.**date\_skey**=D.**date\_skey**

**GROUP BY c**.**gender**, D.**the\_year**

**ORDER BY** d.**the\_year desc**, total\_amt **desc** ;



Clearly evident that Females are more valuable than males when it comes to purchases.

*/\**

*What is the sum of sales distribution in a month every year? ANy pattern ?*

*\*/*

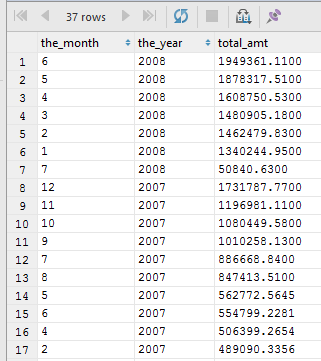
**SELECT** d.**the\_month**, d.**the\_year**, *sum*(f.**extended\_amount**) total\_amt

**FROM** fact\_sales f, dim\_customer **c**, dim\_product p, dim\_date d

**WHERE** f.**customer\_skey**=**c**.**customer\_skey AND** f.**product\_skey**=p.**product\_skey AND** f.**date\_skey**= d.**date\_skey**

**GROUP BY** d.**the\_month**, d.**the\_year**

**ORDER BY** d.**the\_year desc**, total\_amt **desc**;

**

*/\**

*Which color of the products is the most sought after and which gender seeks it - any yearly pattern*

*\*/*

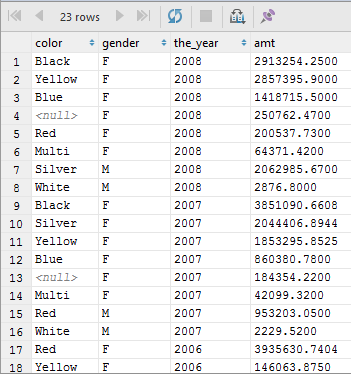
**SELECT distinct** p.**color**, **c**.**gender**, d.**the\_year**, *sum*(f.**extended\_amount**) amt

**FROM** fact\_sales f, dim\_customer **c**, dim\_product p, dim\_date d

**WHERE** f.**customer\_skey**=**c**.**customer\_skey AND** f.**product\_skey**=p.**product\_skey AND** f.**date\_skey**= d.**date\_skey**

**GROUP BY** p.**color**, d.**the\_year**

**ORDER BY** d.**the\_year desc**, **c**.**gender**, amt **desc**;

**

*/\**

*which state has the most ordering customers in terms of order value greater than a sum value of $1000 in the USA per each year*

*\*/*

**select** e.*\**

**FROM**

(

**SELECT c**.**home\_address\_state**, **c**.**home\_address\_country**, *sum*(f.**extended\_amount**) **as** total\_amt, d.**the\_year**

**FROM** fact\_sales f, dim\_customer **c**, dim\_product p, dim\_date d

**WHERE** f.**customer\_skey**=**c**.**customer\_skey AND** f.**product\_skey**=p.**product\_skey AND** f.**date\_skey**= d.**date\_skey**

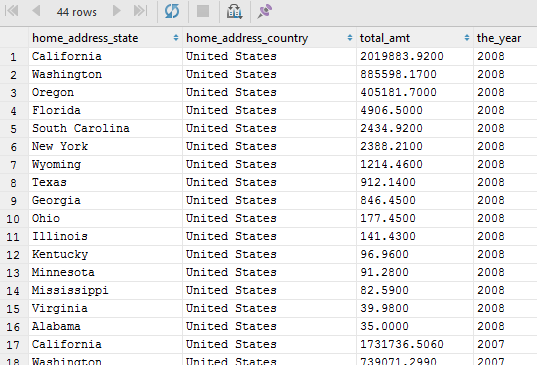
**AND c**.**home\_address\_country LIKE 'United States'**

**GROUP BY c**.**home\_address\_state**, d.**the\_year**

**ORDER BY** d.the\_year **DESC**, total\_amt **DESC**

) e

**where** e.total\_amt > 1000.0000;



Clearly California, followed by Washington is the winner.

*/\**

*The Categories and Sub categories which are being sold every year*

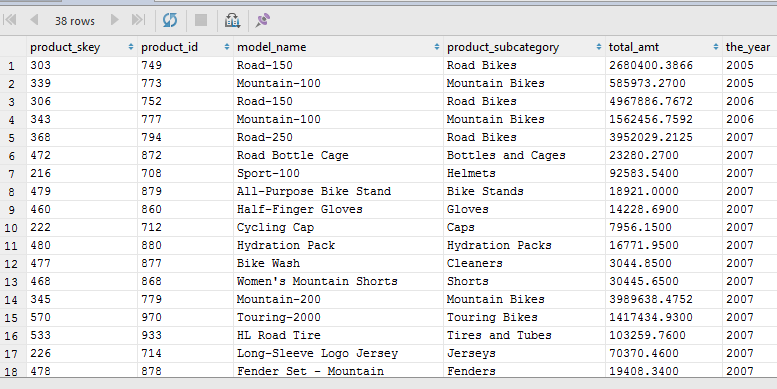
*\*/*

**SELECT** f.**product\_skey**, p.**product\_id**, p.**model\_name**, p.**product\_category**, p.**product\_subcategory**, *sum*(f.**extended\_amount**) total\_amt, d.**the\_year**

**FROM** fact\_sales f, dim\_customer **c**, dim\_product p, dim\_date d

**WHERE** f.**customer\_skey**=**c**.**customer\_skey AND** f.**product\_skey**=p.**product\_skey AND** f.**date\_skey**= d.**date\_skey**

**GROUP BY** p.**product\_subcategory** , d.**the\_year**

 **ORDER BY** D.**the\_year**;

The most sought after products are Bikes.