

Here are couple of the queries used to test the program

1. For each customer find the average quantity purchased during years 1990 and 1991

EMF:

Select cust, avg(x), avg(y)

From sales

Group By cust; x, y

Suchthat x.cust = cust AND x.year = 1990 AND y.cust = cust AND y.year = 1991

SQL:

Create view v1 as

Select cust, avgq = avg(quantity)

From sales

Where year = 1990

Group by cust

Create view v2 as

Select cust, avgq = avg(quantity)

From sales

Where year = 1991

Group by cust

Select v1.cust, v1.avgq, v2.avgq

From v1, v2

Where v1.cust = v2.cust

2. For each customer find the largest quantity purchased and what product it is

EMF:

Select cust, x.prod, x.quantity

From sales

Group by cust; x

Suchthat x.quantity = max(quantity)

SQL:

Create v1 as

Select cust, maxq = max(quantity)

From sales

Group by cust

Select v1.cust, prod, quantity

From sales s, v1 v

Where quantity = maxq AND s.cust = v.cust