



CS 443

LAB 6

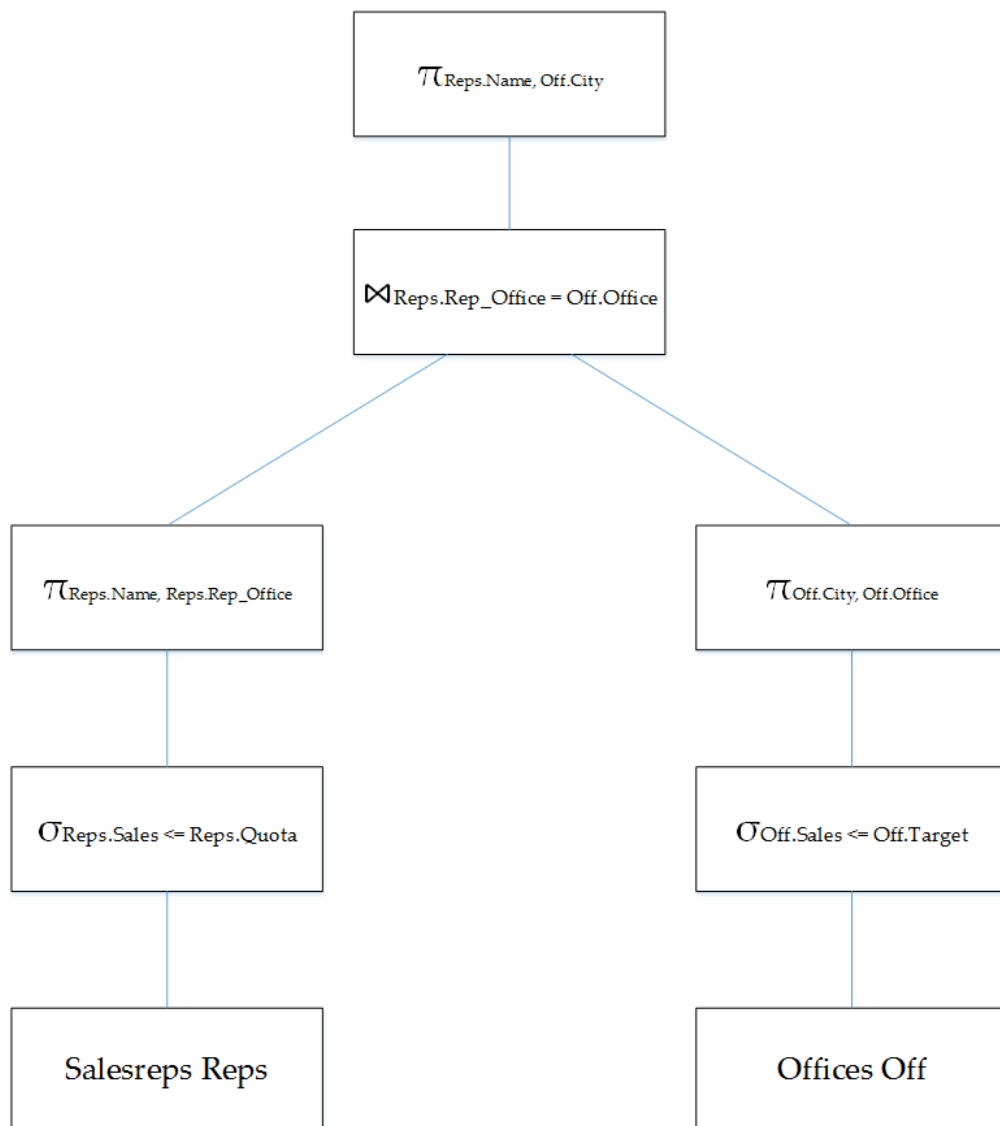
Malialosa Taupule

4 May 2017



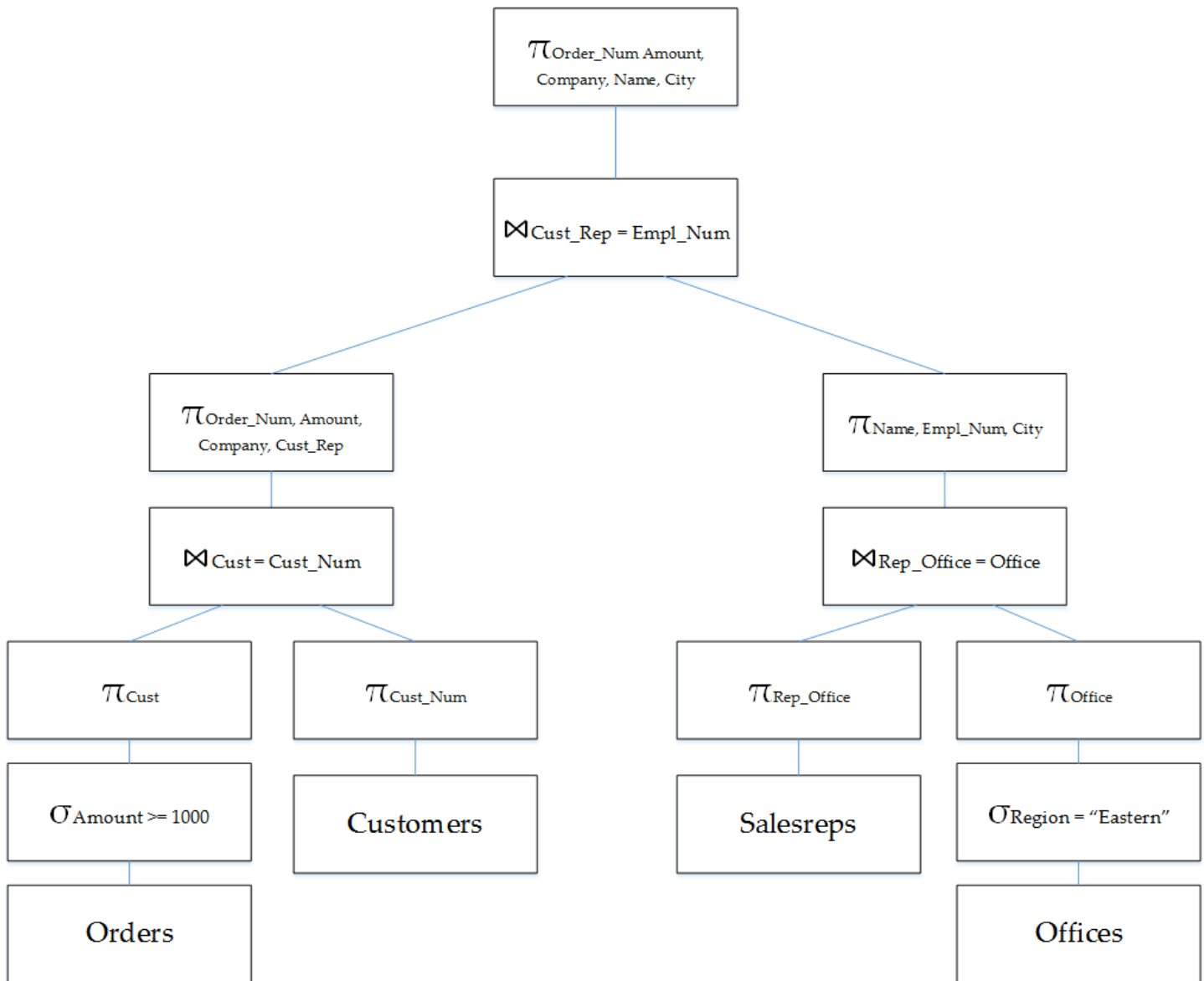
1) Use query tree to optimize the following query

```
SELECT reps.name, off.city
FROM salesreps reps, offices off
WHERE reps.rep_office=off.office
AND reps.sales<=reps.quota
AND off.sales<=off.target;
```



2.) Use query tree to optimize the following query

```
SELECT Order_Num, Amount, Company, Name, City
FROM Orders, Customers, Salesreps, Offices
WHERE Cust = Cust_Num
AND Cust_Rep = Empl_Num
AND Rep_Office = Office
AND Amount >= 10000
AND Region = "Eastern"
```



3.) Use query tree to optimize the following query

```
SELECT product_id, description, cust_num, company
FROM ORDERS, CUSTOMERS, PRODUCTS
WHERE cust=cust_num
AND MFR=MFR_ID
AND Product=Product_Id
AND Amount <= 1500
```

