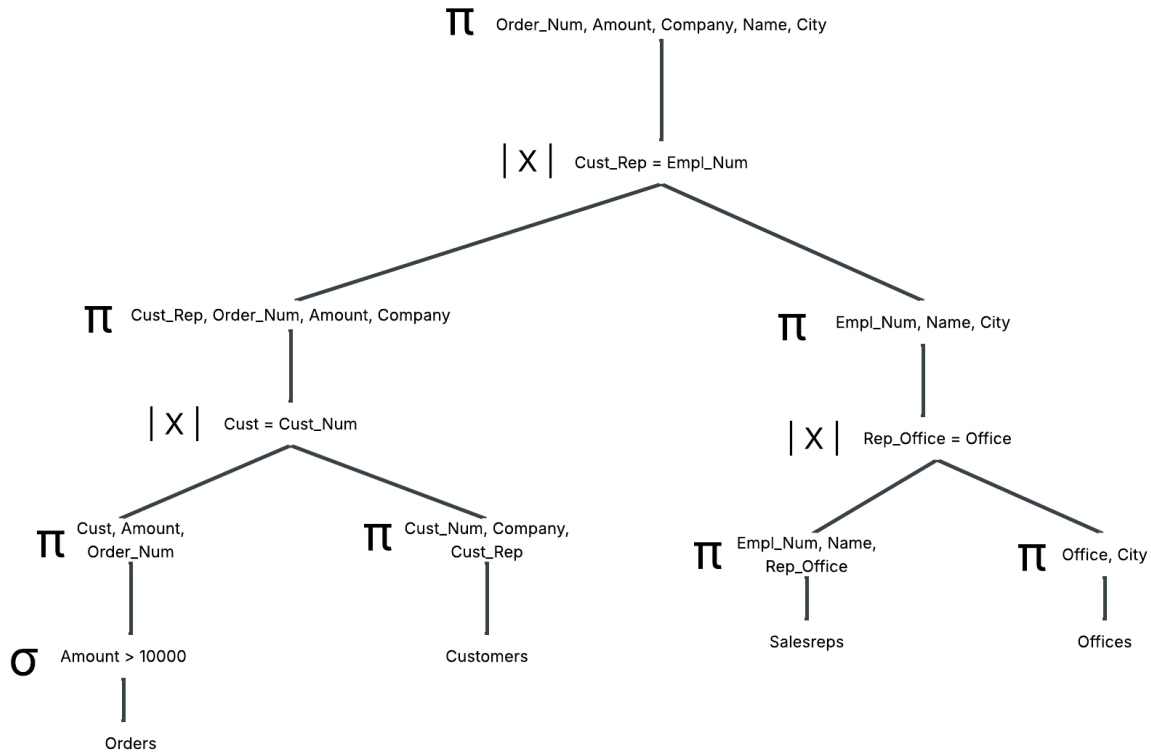


## CS 443 - Assignment 10

- 1) Use query tree to optimize the following query. Use the tables that was provided in previous Assignment

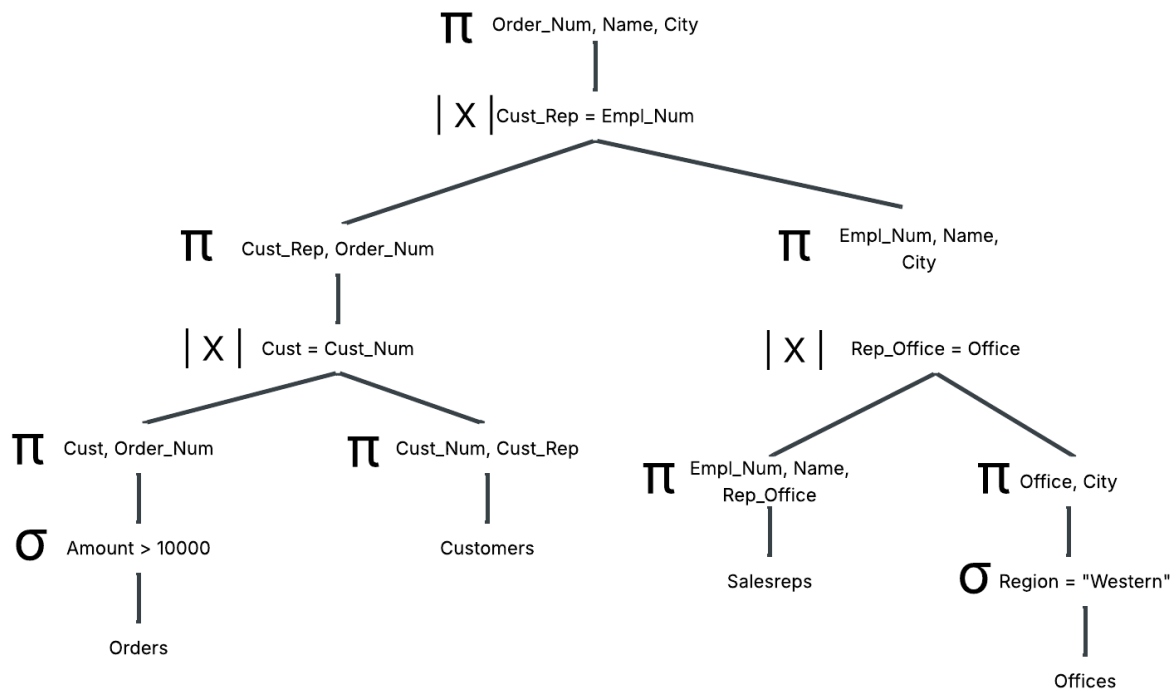
```
SELECT Order_Num, Amount, Company, Name, City
FROM Orders, Customers, Salesreps, Offices
WHERE Cust = Cust_Num AND Cust_Rep = Empl_Num AND Rep_Office = Office
AND Amount > 10000
```



- 2) Use query tree to optimize the following query. Use the tables that was provided in previous assignment

```
SELECT cust_num, cust_rep, name, rep_office, city
FROM Customers, Salesreps, Offices
WHERE empl_num = cust_rep, and rep_office = office
AND credit_limit >= 5000 And region = "western" And office in (11, 12)
```

```
SELECT Order_Num, 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 = "Western"
```



- 4) Use query tree to optimize the following query. Use the tables that was provided in previous assignment

SELECT order\_num, mfr, product, rep, price  
 From orders, products  
 Where price > 100 And Qty-On-hand > 3  
 and mfr = mfr\_id and product = product\_id

