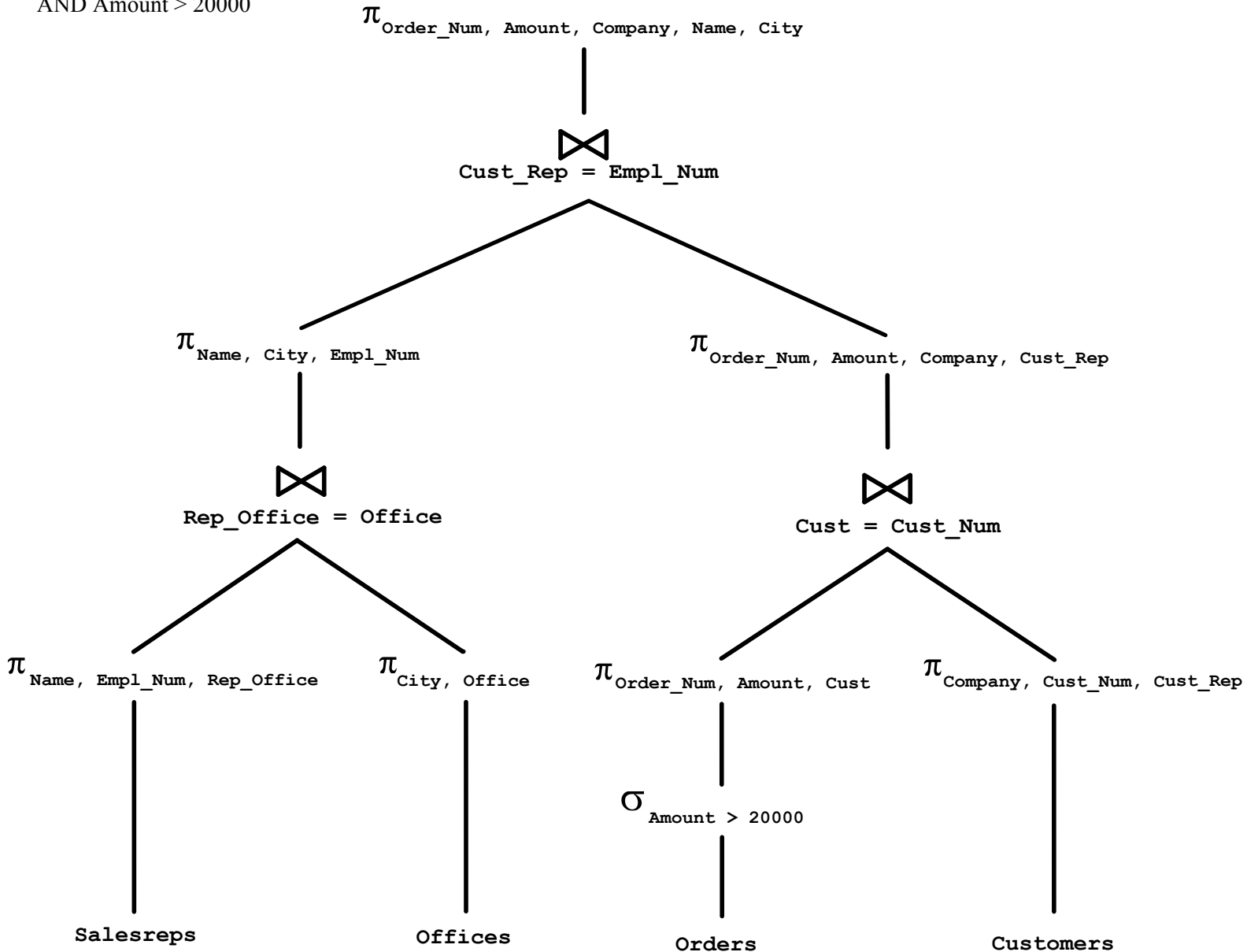


1) Use query tree to optimize the following query.

Use the tables that was provided in previous Assignment

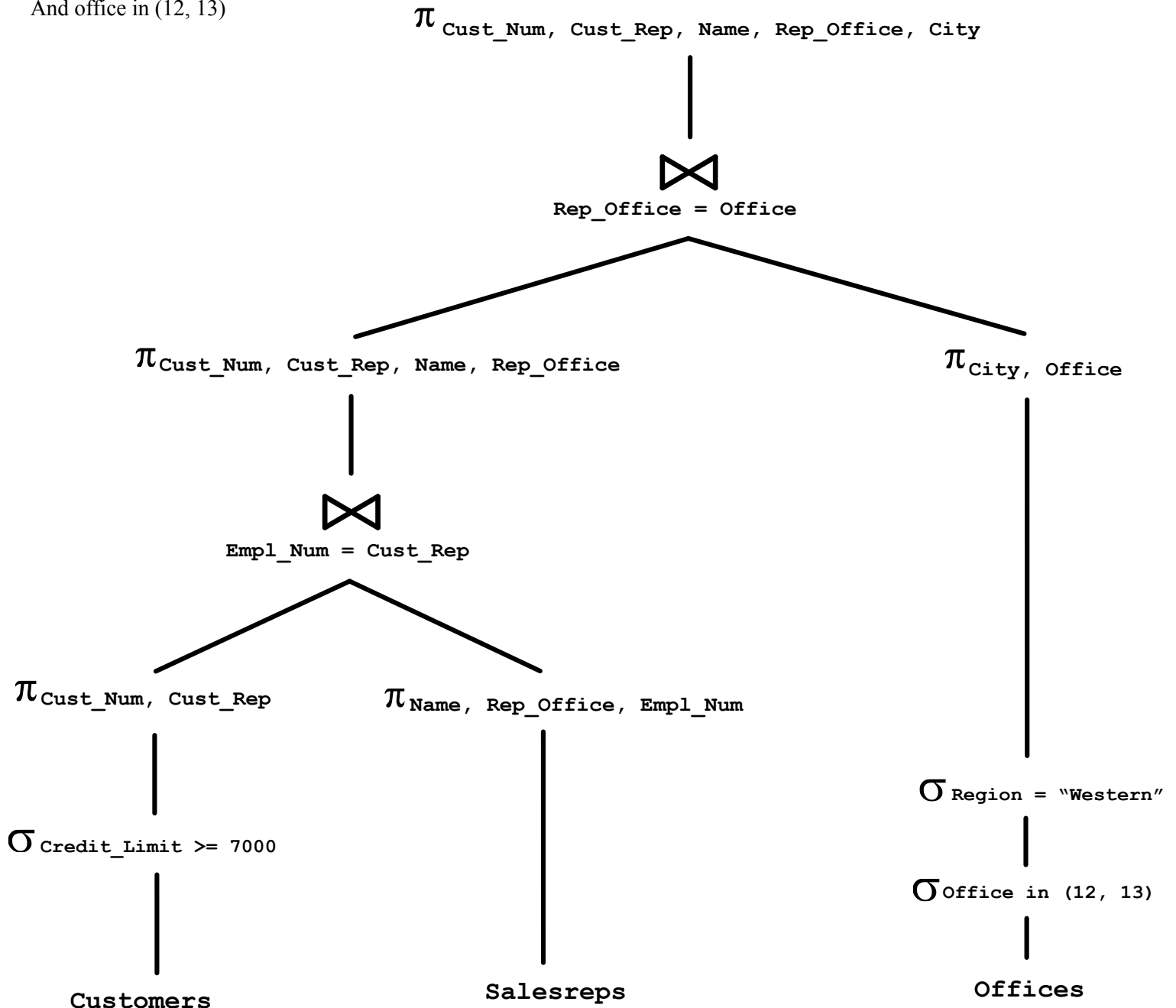
```
SELECT Order_Num, Amount, Company, Name, City
FROM Orders, Customers, Salesreps, Offices
WHERE Cust = Cust_Num
AND Cust_Rep = Empl_Num
AND Rep_Office = Office
AND Amount > 20000
```



2) Use query tree to optimize the following query.

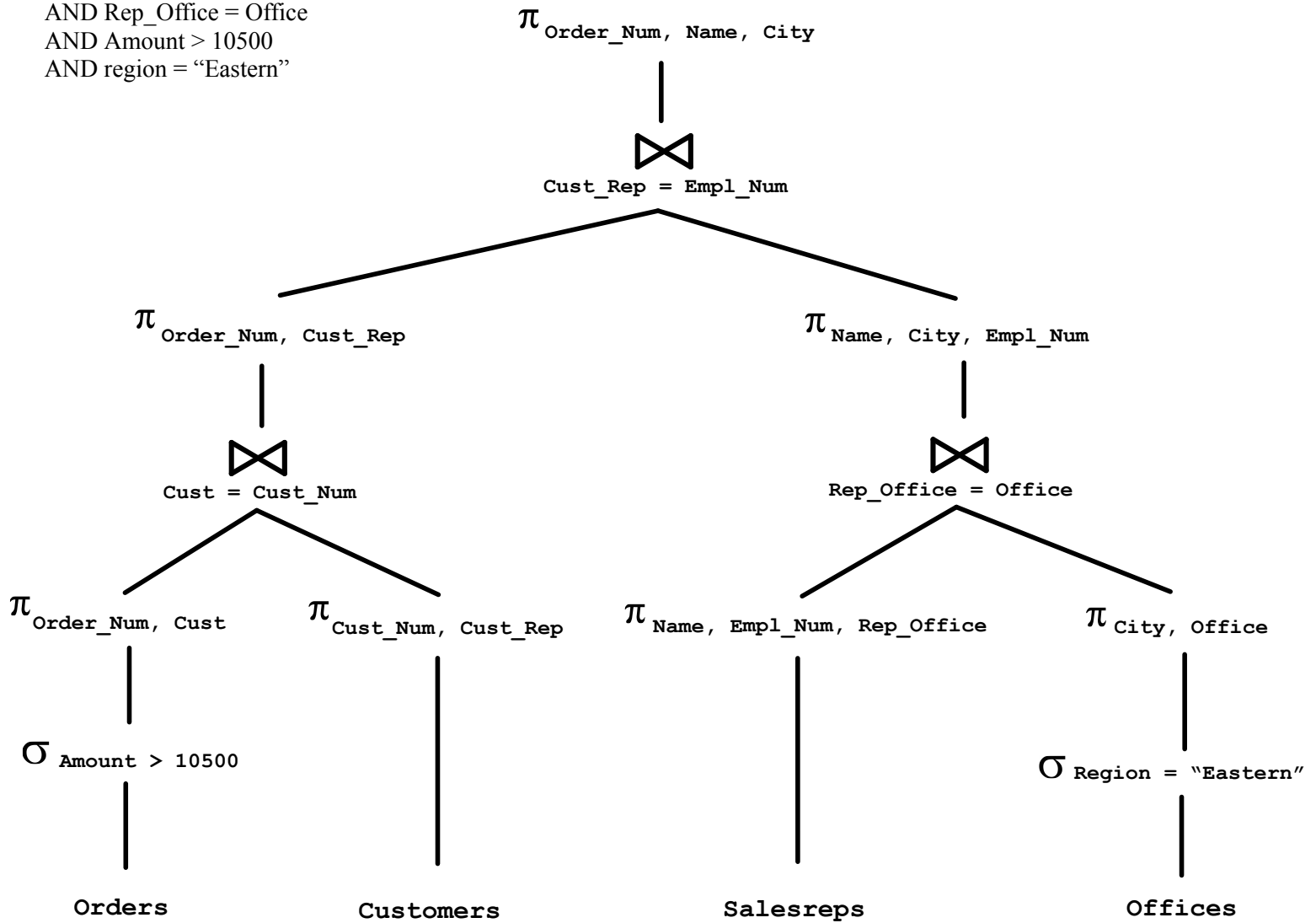
Use the tables that was provided in previous assignment

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 >= 7000
And region = "western"
And office in (12, 13)



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

```
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 > 10500
AND region = "Eastern"
```



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

Select order_num, Company, Name, City, Region
 from orders, Products, Customers, Salesreps, Offices
 where order_rate > "Jan-20-2023" and
 City in ("New York", 'Los Angeles')
 Name like ('P%') and
 office.Sales > \$340,000 and
 Company like 'S%' and
 product=product_ID and mfr = mfr_id and
 cust = cust-Rep and
 cust_rep = empl-num and
 rep_office = office);

