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**Professor: Dr. Hadaegh**

**Class: CS443**

**Note: I did not know how to do NON- Arrows, so imagine the arrows are just straight lines with no direction.**

**CS443 -- Lab 6**

1. **Use query tree to optimize the following query**

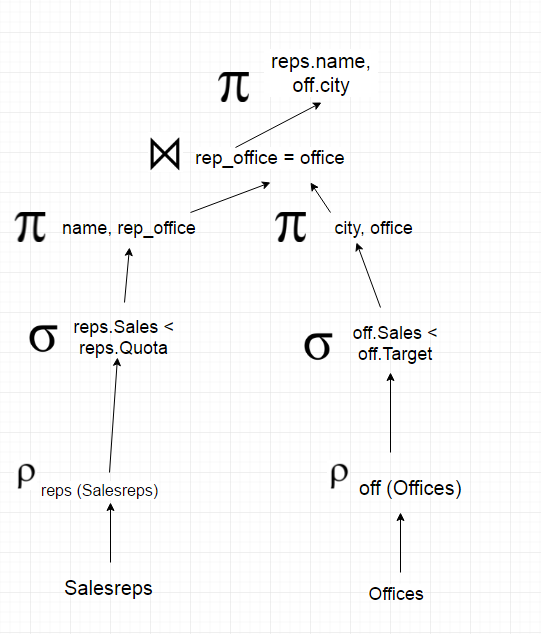
SELECT reps.name, off.city

FROM salesreps reps, offices off

WHERE reps.rep\_office=off.office

AND reps.sales<reps.quota

AND off.sales<off.target;



1. **Use query tree to optimize the following query**

SELECT Order\_Num, Amount, Company, Name, City

FROM Orders, Customers, Salesreps, Offices

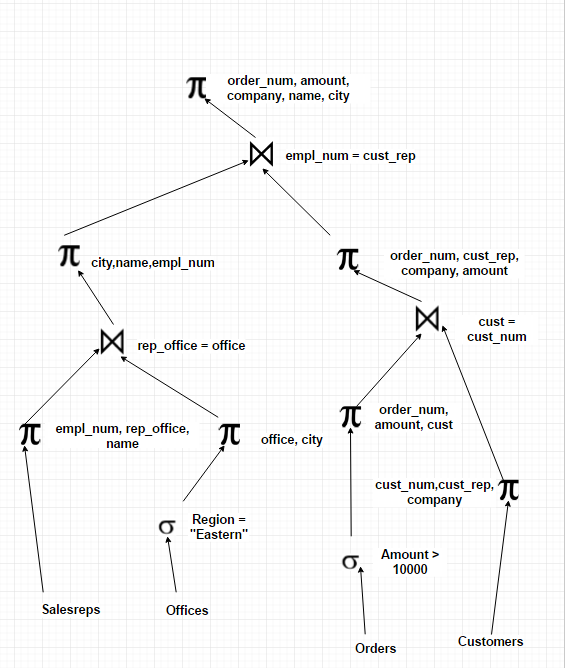
WHERE Cust = Cust\_Num

AND Cust\_Rep = Empl\_Num

AND Rep\_Office = Office

AND Amount > 10000

AND Region = “Eastern”



1. **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

