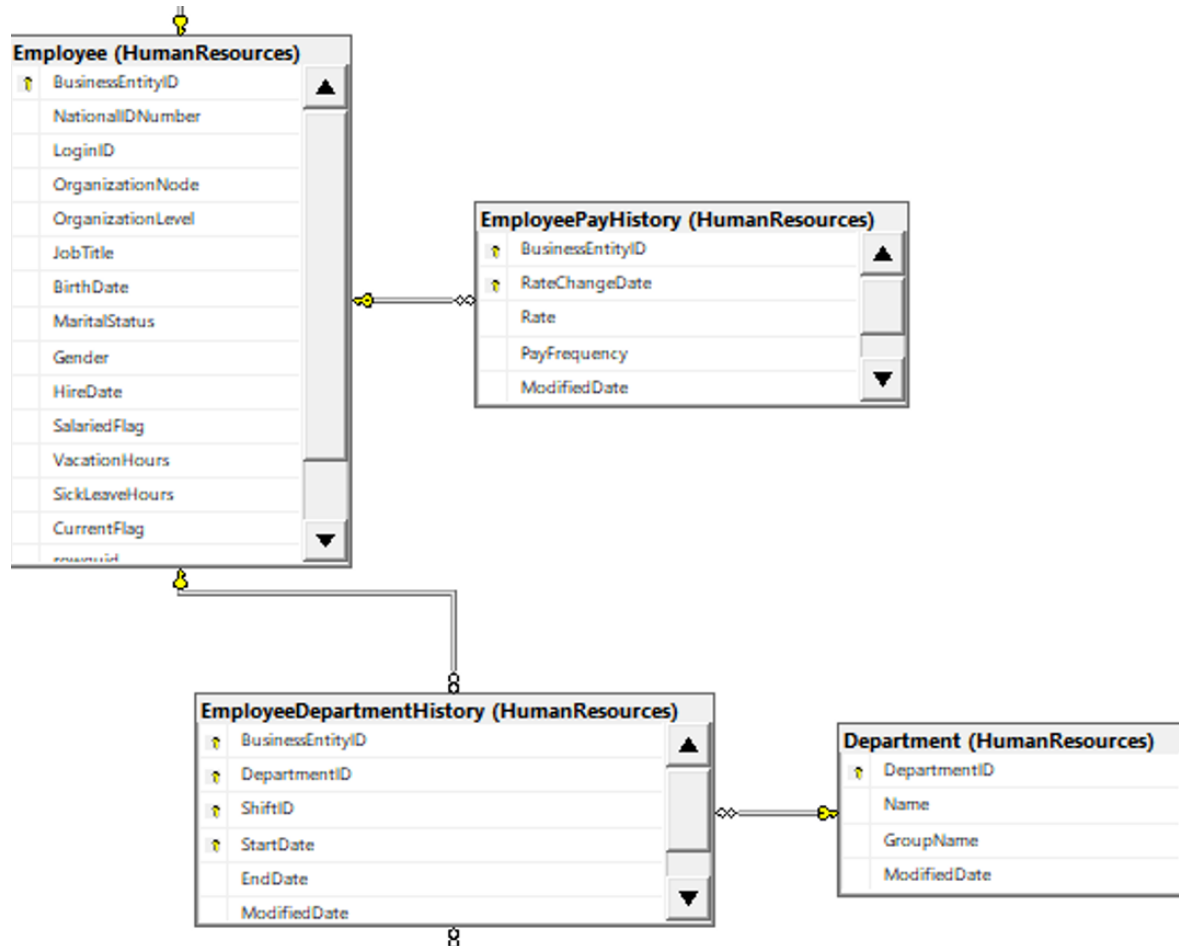


SQL Question Mu Sigma

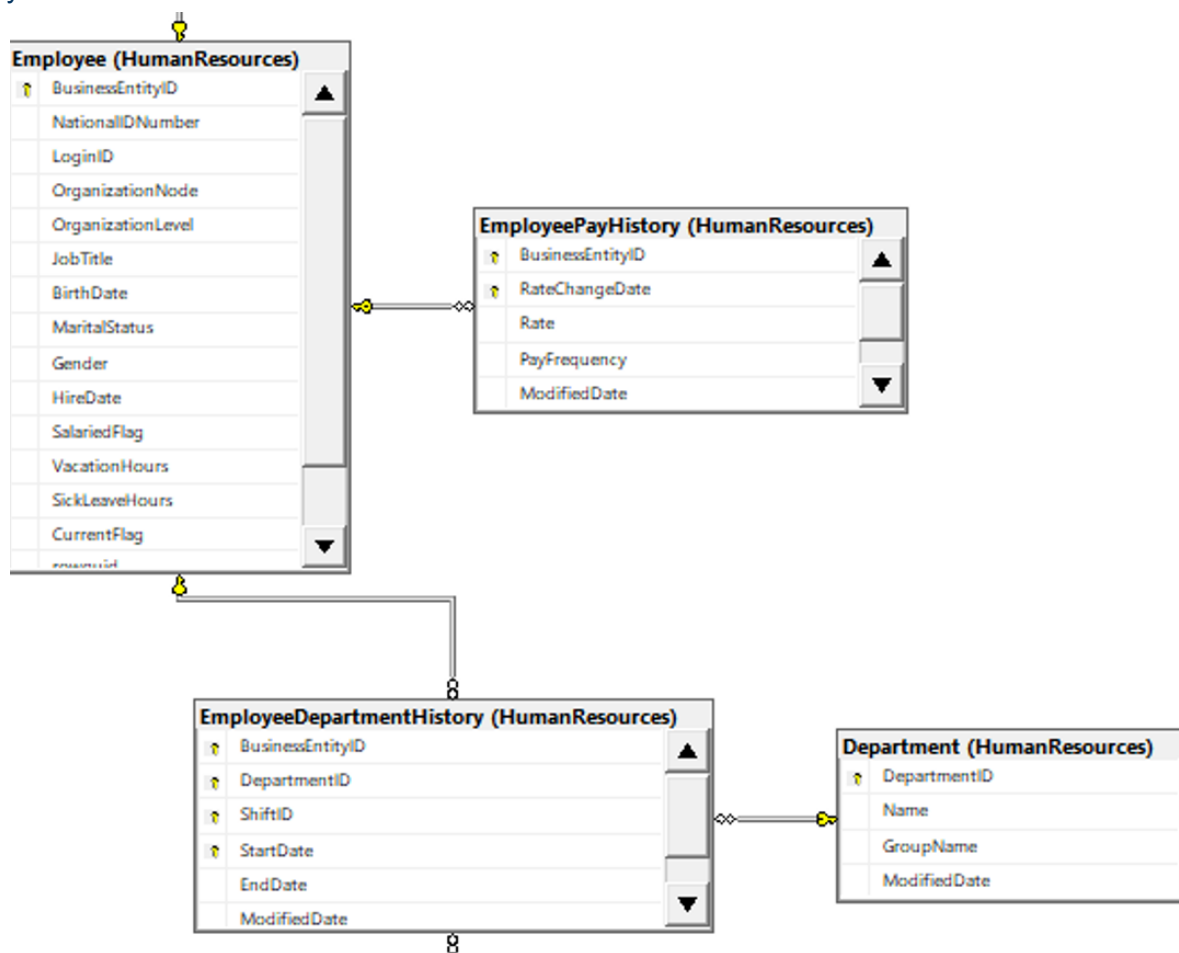
1. List the month name and number of employees hired in each month and ignore the year factor

Note: Two different years but the same month's hired employee count should be summed together to get the total of employees hired in the respective month.

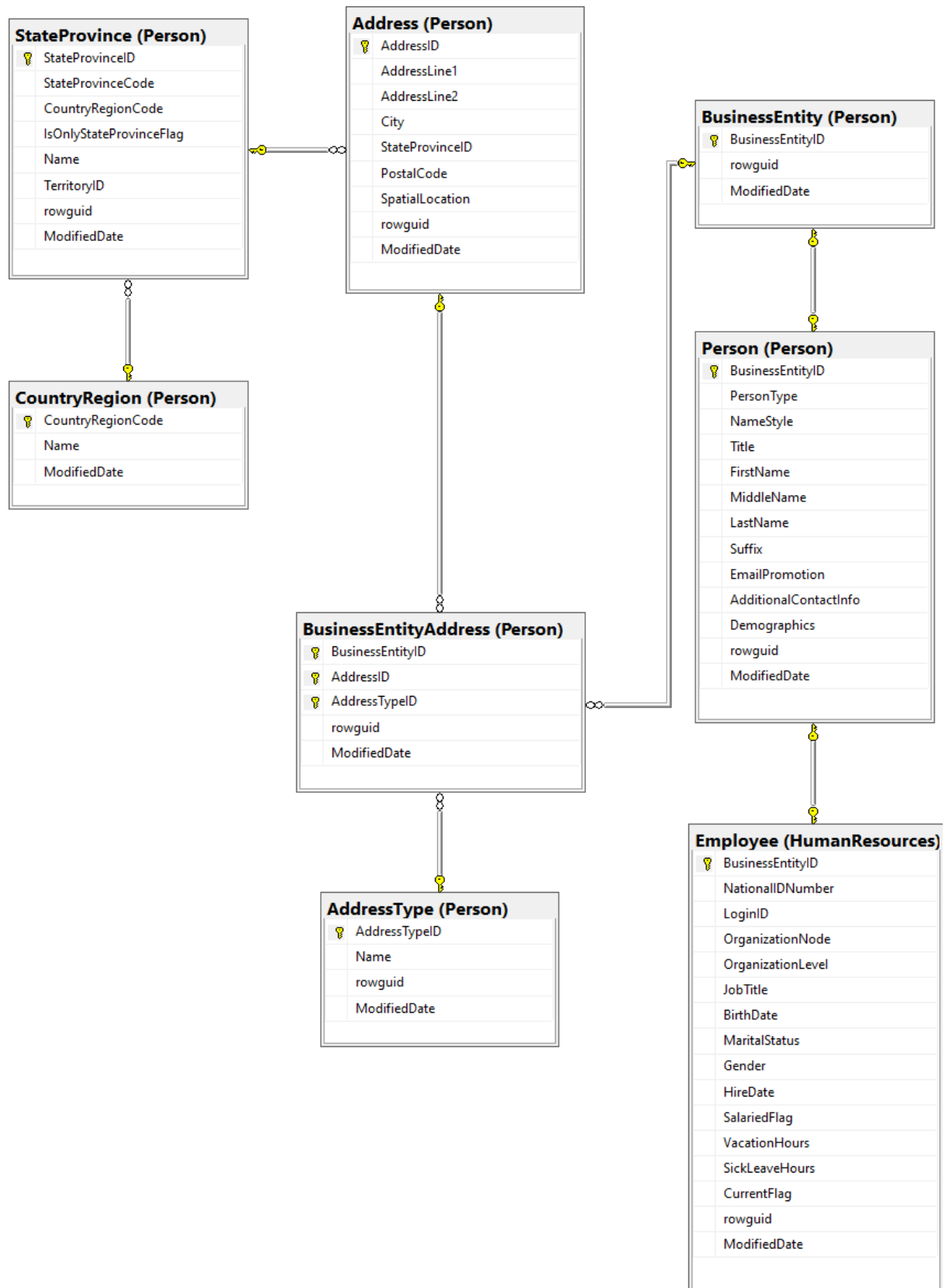
Use the below ER-Diagram to write query.



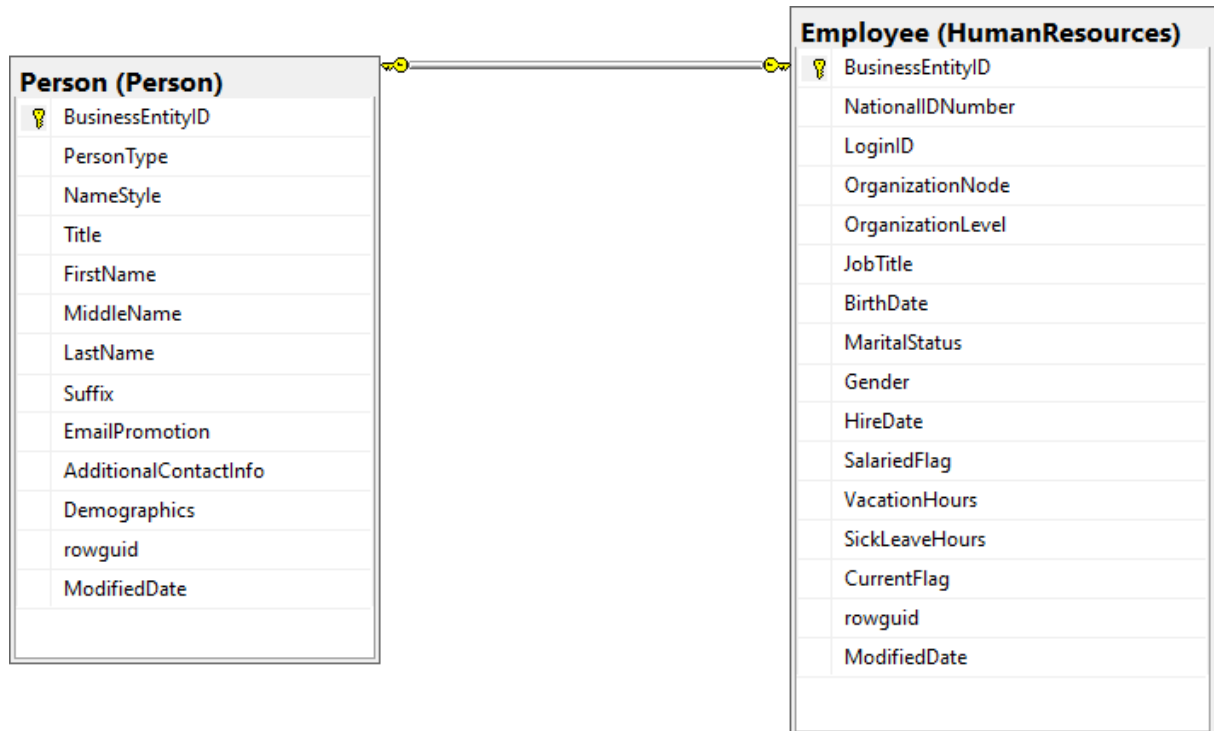
2. List department name, and the number of employees hired in each department year-wise.



- List the person and their country region name who is not an employee and their name starts with the character "S".



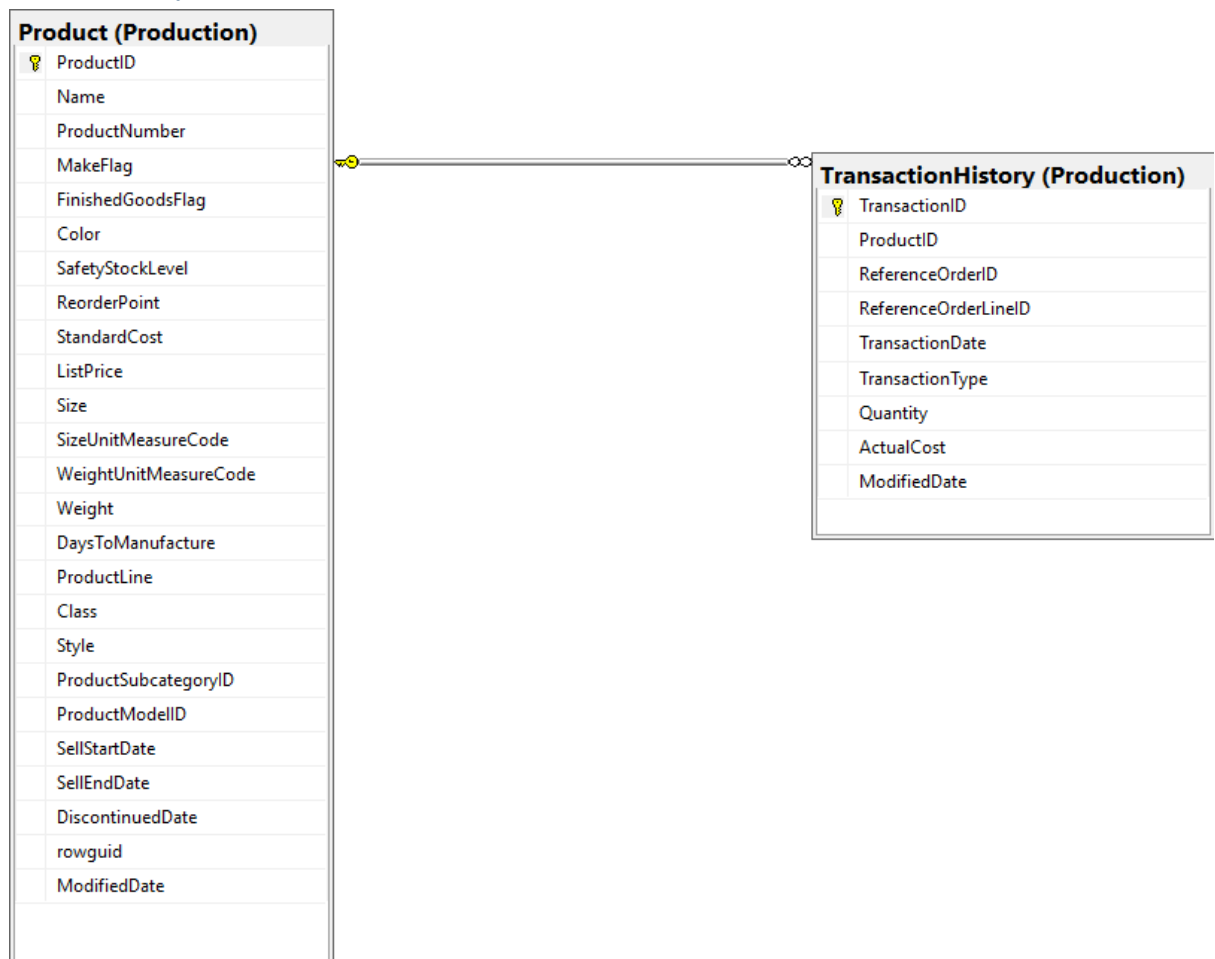
- Each employee has an organization level. The organization-level provides details about employee senior. Organization level is mapped with the business_entity_id column of the employee table to get detail about seniors. List all senior employee names, job titles, organization level, and a number of immediate reporting employees.



Output format:

Name	JobTitle	OrganizationLevel	NumberOfEmployeeReporting
Ken Sánchez	Chief Executive Officer	1	6
Terri Duffy	Vice President of Engineering	2	27
Roberto Tamburello	Engineering Manager	3	66
Rob Walters	Senior Tool Designer	4	190

5. Use **Product** and **TransactionHistory** table to show productid, product name, the cumulative sum of actual cost based on the transaction date and communication sum of the quantity column on the transaction date, transaction date.

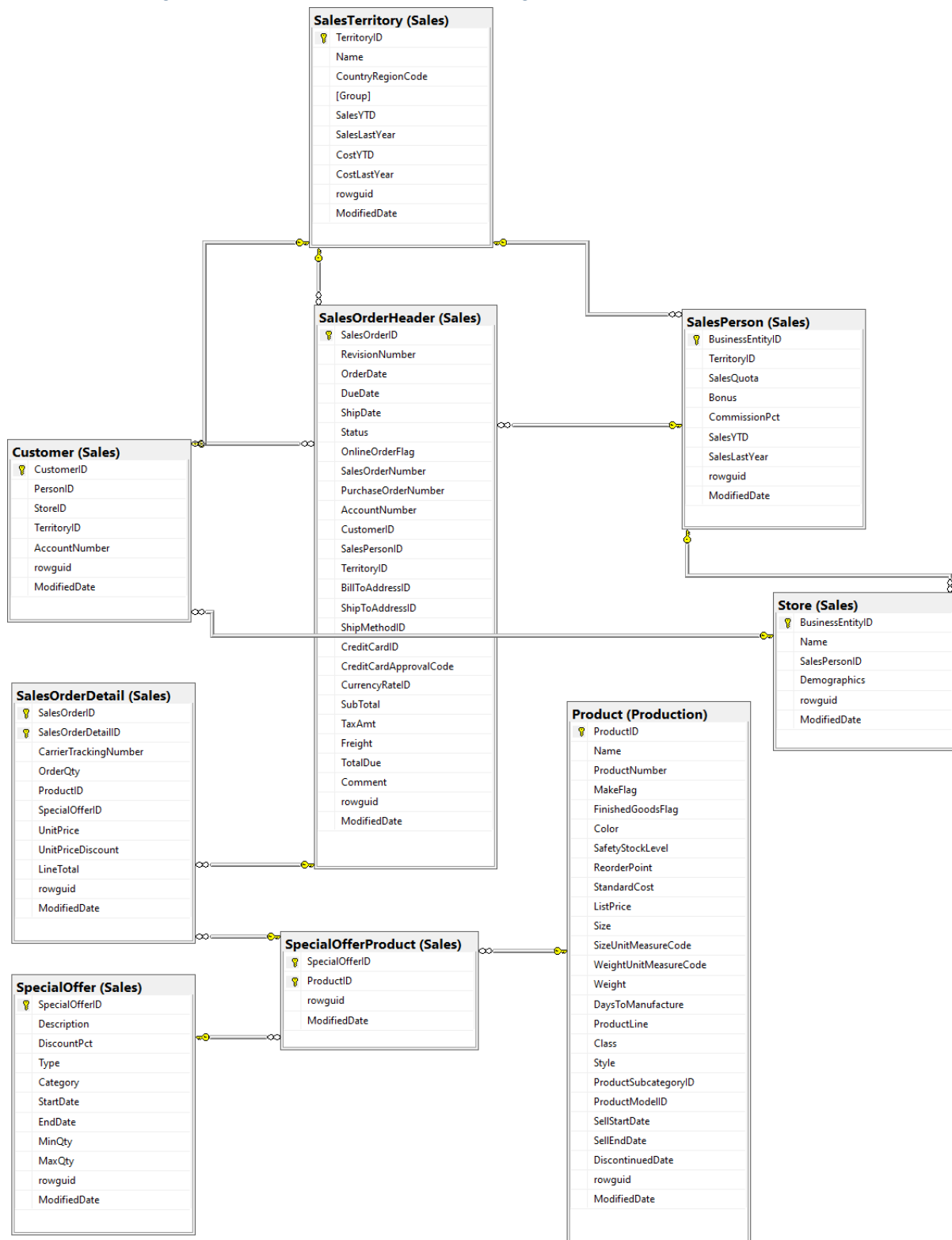


Output format:

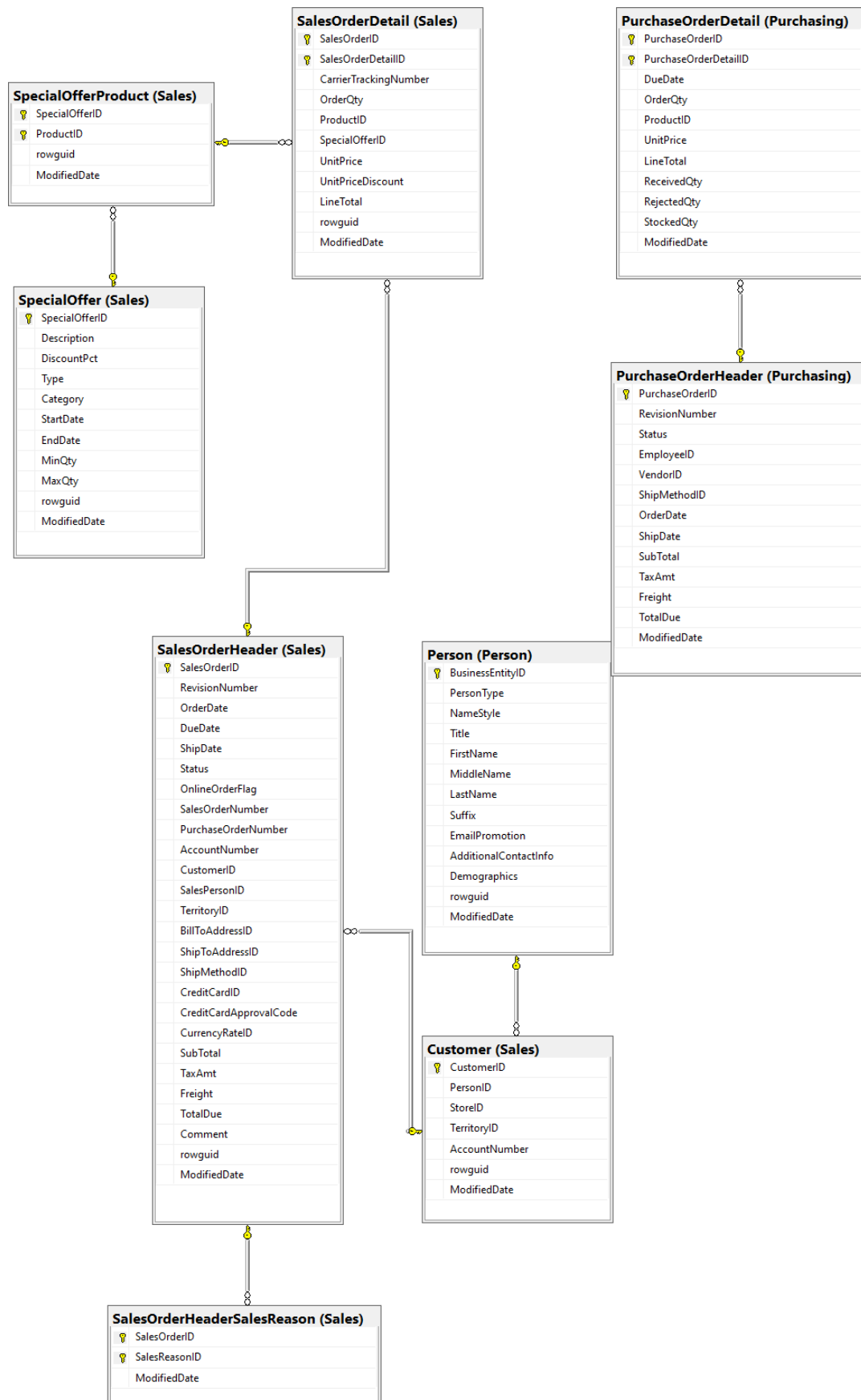
	productid	Name	commulative_sum	commulative_quantity	TransactionDate
16	717	HL Road Frame - Red, 62	20030.5891	42	2013-07-31 00:00:00.000
17	717	HL Road Frame - Red, 62	20030.5891	42	2013-07-31 00:00:00.000
18	717	HL Road Frame - Red, 62	20030.5891	42	2013-07-31 00:00:00.000
19	717	HL Road Frame - Red, 62	20030.5891	42	2013-07-31 00:00:00.000
20	717	HL Road Frame - Red, 62	25327.1391	52	2013-08-30 00:00:00.000
21	717	HL Road Frame - Red, 62	25327.1391	52	2013-08-30 00:00:00.000
22	717	HL Road Frame - Red, 62	25327.1391	52	2013-08-30 00:00:00.000
23	717	HL Road Frame - Red, 62	25327.1391	52	2013-08-30 00:00:00.000
24	717	HL Road Frame - Red, 62	25327.1391	52	2013-08-30 00:00:00.000
25	717	HL Road Frame - Red, 62	31682.9991	69	2013-09-30 00:00:00.000
26	717	HL Road Frame - Red, 62	31682.9991	69	2013-09-30 00:00:00.000
27	717	HL Road Frame - Red, 62	31682.9991	69	2013-09-30 00:00:00.000

6. List Product name, Store Name, Sales Person name, sales county region, customer name who has done highest order in their region monthly wise.

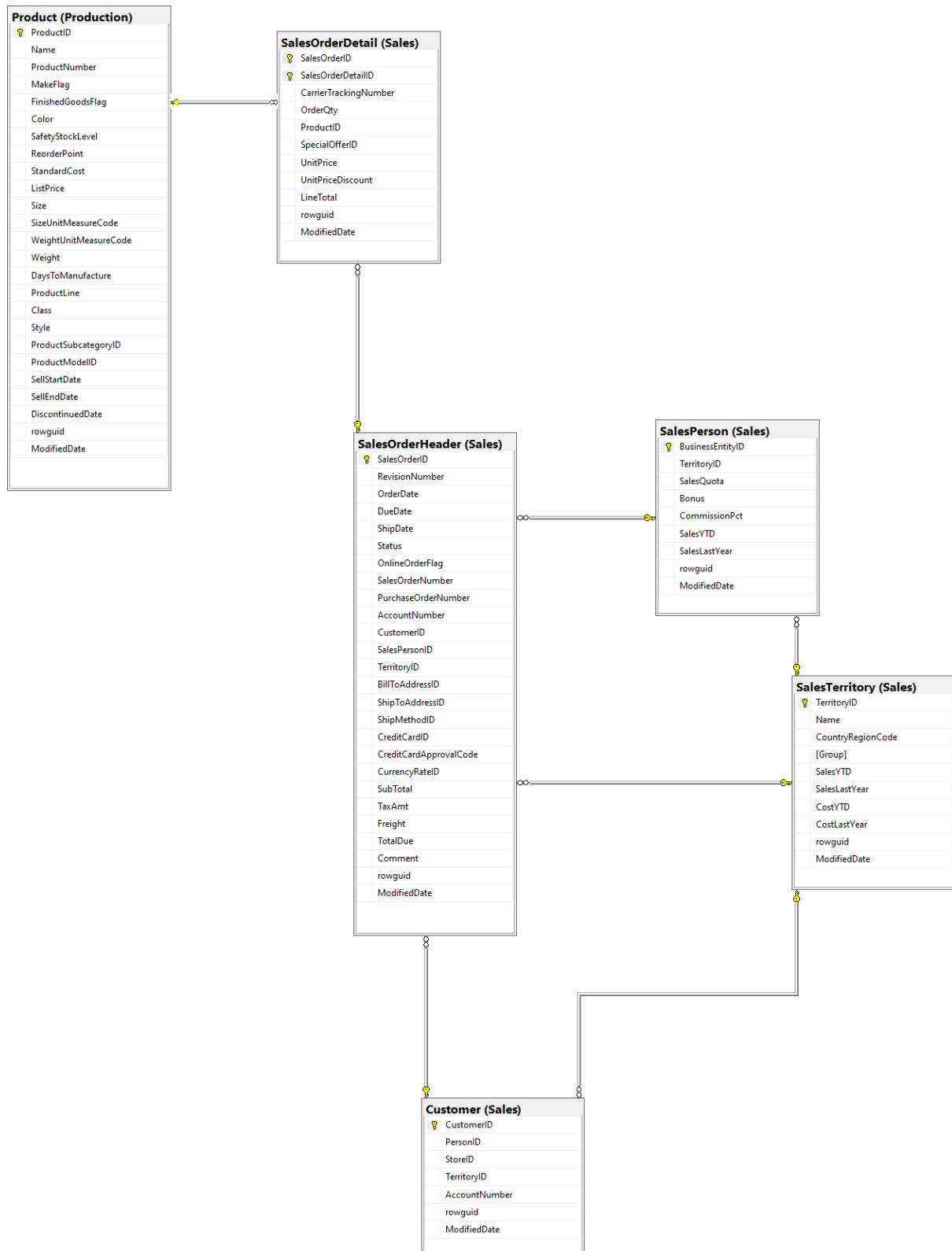
Note: highest order means based on the highest order price.



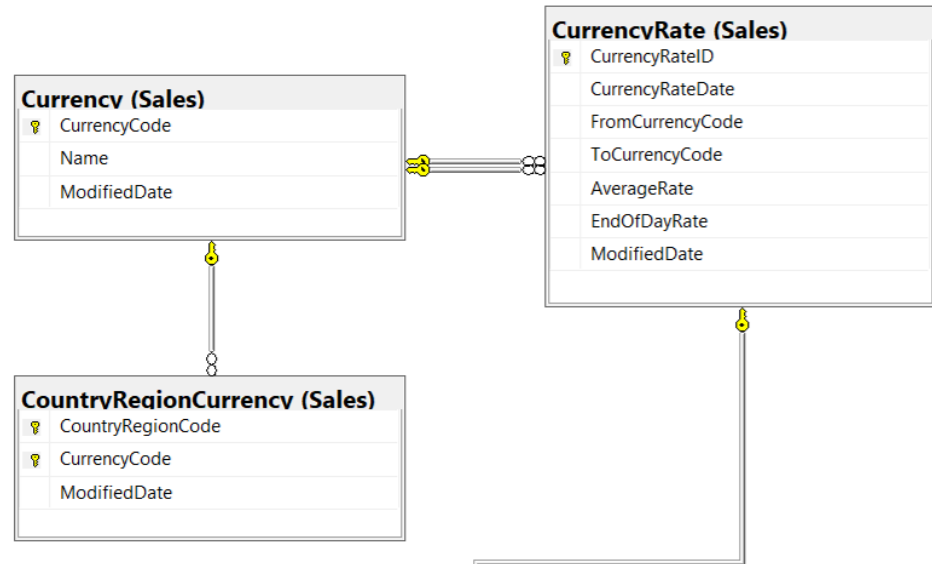
7. List the customer name who has received the highest discount in the first quarter on their purchase.



8. Calculate the difference between consecutive order amounts from highest to lowest, actual order amount, product name, customer name, salesperson name, and country region where the order has been placed.



9. Rank county region for currency rate based EndOfDayRate of the currency.



10. List all product and their order detail accepted by credit card whose expiration date was in the same month.

