

GPT 3.5- Turbo

OpenAI Call :

Question : Report the ratios of weekly web and catalog sales increases from one year to the next year for each week. That is, compute the increase of Monday, Tuesday, ... Sunday sales from one year to the following.

Answer : input_facts=[FactPhrase(fact='web sales', phrase='weekly web sales increases'), FactPhrase(fact='catalog sales', phrase='catalog sales increases')]

Question : Count the customers with the same gender, marital status, education status, purchase estimate, credit rating, dependent count, employed dependent count and college dependent count who live in certain counties and who have purchased from both stores and another sales channel during a three month time period of a given year.

Answer : input_facts=[FactPhrase(fact='store returns', phrase='return transactions made by customers at stores'), FactPhrase(fact='store sales data', phrase='purchases made by customers at stores')]

Question : Compute, for each county, the average quantity, list price, coupon amount, sales price, net profit, age, and number of dependents for all items purchased through catalog sales in a given year by customers who were born in a given list of six months and living in a given list of seven states and who also belong to a given gender and education demographic.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='catalog sales'), FactPhrase(fact='catalog returns', phrase='catalog returns')]

Question : Get all items that were (i) sold in stores in a particular month and year and (ii) returned and re-purchased by the customer through the catalog channel in the same month and in the six following months. For these items, compute the sum of net profit of store sales, net loss of store loss and net profit of catalog.

Group this information by item and store.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='sold through the catalog channel'), FactPhrase(fact='catalog returns', phrase='returned and re-purchased by the customer through the catalog channel')] + One Missing

Question : Display count of customers with purchases from all 3 channels in a given year.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='catalog'), FactPhrase(fact='catalog sales', phrase='call center')] + 2 Missing

Question : Report the total catalog sales for customers in selected geographical regions or who made large purchases for a given year and quarter.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='for customers in selected geographical regions or who made large purchases for a given year and quarter')]

Question : Get all items that were sold in stores in a specific month and year and which were returned in the next six months of the same year and re-purchased by the returning customer afterwards through the catalog sales channel in the following three years. For those these items, compute the total quantity sold through the store, the quantity returned and the quantity purchased through the catalog. Group this information by item and store.

Answer : input_facts=[FactPhrase(fact='store sales data', phrase='sold in stores'), FactPhrase(fact='store returns', phrase='returned')] + One Missing

Question : Compute the total discounted amount for a particular manufacturer in a particular 90 day period for catalog sales whose discounts exceeded the average discount by at least 30%.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='discounts exceeded the average discount by at least 30% for a particular manufacturer in a particular 90 day period')]

DSPy Call :

Question : Report the ratios of weekly web and catalog sales increases from one year to the next year for each week. That is, compute the increase of Monday, Tuesday, ... Sunday sales from one year to the following.

Answer : `input_facts=[FactPhrase(fact='web sales', phrase='web sales'),
FactPhrase(fact='catalog sales', phrase='catalog sales')]`

Question : Count the customers with the same gender, marital status, education status, purchase estimate, credit rating, dependent count, employed dependent count and college dependent count who live in certain counties and who have purchased from both stores and another sales channel during a three month time period of a given year.

Answer : `input_facts=[FactPhrase(fact='store sales data', phrase='purchased from both stores'), FactPhrase(fact='web sales', phrase='another sales channel')]`
+ One Missing

Question : Compute, for each county, the average quantity, list price, coupon amount, sales price, net profit, age, and number of dependents for all items purchased through catalog sales in a given year by customers who were born in a given list of six months and living in a given list of seven states and who also belong to a given gender and education demographic.

Answer : `input_facts=[FactPhrase(fact='catalog sales', phrase='items purchased through catalog sales')]`

Question : Get all items that were (i) sold in stores in a particular month and year and (ii) returned and re-purchased by the customer through the catalog channel in the same month and in the six following months. For these items, compute the sum of net profit of store sales, net loss of store loss and net profit of catalog. Group this information by item and store.

Answer : `input_facts=[FactPhrase(fact='store sales data', phrase='sold in stores'), FactPhrase(fact='store returns', phrase='returned and re-purchased by the customer through the catalog channel'), FactPhrase(fact='catalog sales', phrase='net profit of catalog')]` - Correct fact but a bit weird phrase

Correct fact but a bit weird phrase

Question : Display count of customers with purchases from all 3 channels in a given year.

Answer : input_facts=[FactPhrase(fact='web sales', phrase='purchases made by customers at stores'), FactPhrase(fact='catalog sales', phrase='purchases made by customers at stores'), FactPhrase(fact='store sales data', phrase='purchases made by customers at stores')] - **Correct fact but a bit weird phrase**

Question : Report the total catalog sales for customers in selected geographical regions or who made large purchases for a given year and quarter.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='total catalog sales')]

Question : Get all items that were sold in stores in a specific month and year and which were returned in the next six months of the same year and re-purchased by the returning customer afterwards through the catalog sales channel in the following three years. For those these items, compute the total quantity sold through the store, the quantity returned and the quantity purchased through the catalog. Group this information by item and store.

Answer : input_facts=[FactPhrase(fact='store sales data', phrase='items that were sold in stores'), FactPhrase(fact='store returns', phrase='returned in the next six months of the same year'), FactPhrase(fact='catalog sales', phrase='re-purchased by the returning customer afterwards through the catalog sales channel')]

Question : Compute the total discounted amount for a particular manufacturer in a particular 90 day period for catalog sales whose discounts exceeded the average discount by at least 30%.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='discounted amount')]

GPT-4 :

Almost similar for both DSPy and OpenAI Call.

Question : Report the ratios of weekly web and catalog sales increases from one year to the next year for each week. That is, compute the increase of Monday, Tuesday, ... Sunday sales from one year to the following.

Answer : `input_facts=[FactPhrase(fact='web sales', phrase='weekly web sales increases'), FactPhrase(fact='catalog sales', phrase='catalog sales increases')]`

Question : Count the customers with the same gender, marital status, education status, purchase estimate, credit rating, dependent count, employed dependent count and college dependent count who live in certain counties and who have purchased from both stores and another sales channel during a three month time period of a given year.

Answer : `input_facts=[FactPhrase(fact='store sales data', phrase='purchased from both stores'), FactPhrase(fact='catalog sales', phrase='another sales channel'), FactPhrase(fact='web sales', phrase='another sales channel')]`

Question : Compute, for each county, the average quantity, list price, coupon amount, sales price, net profit, age, and number of dependents for all items purchased through catalog sales in a given year by customers who were born in a given list of six months and living in a given list of seven states and who also belong to a given gender and education demographic.

Answer : `input_facts=[FactPhrase(fact='catalog sales', phrase='all items purchased through catalog sales')]`

Question : Get all items that were (i) sold in stores in a particular month and year and (ii) returned and re-purchased by the customer through the catalog channel in the same month and in the six following months. For these items, compute the sum of net profit of store sales, net loss of store loss and net profit of catalog.

Group this information by item and store.

Answer : `input_facts=[FactPhrase(fact='store sales data', phrase='sold in stores in a particular month and year'), FactPhrase(fact='store returns', phrase='returned and re-purchased by the customer'), FactPhrase(fact='catalog sales', phrase='re-purchased by the customer through the catalog channel'),`

FactPhrase(fact='catalog returns', phrase='returned and re-purchased by the customer through the catalog channel']]

Question : Display count of customers with purchases from all 3 channels in a given year.

Answer : input_facts=[FactPhrase(fact='web sales', phrase='purchases from all 3 channels'), FactPhrase(fact='catalog sales', phrase='purchases from all 3 channels'), FactPhrase(fact='store sales data', phrase='purchases from all 3 channels')]

Question : Report the total catalog sales for customers in selected geographical regions or who made large purchases for a given year and quarter.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='total catalog sales for customers')]

Question : Get all items that were sold in stores in a specific month and year and which were returned in the next six months of the same year and re-purchased by the returning customer afterwards through the catalog sales channel in the following three years. For those these items, compute the total quantity sold through the store, the quantity returned and the quantity purchased through the catalog. Group this information by item and store.

Answer : input_facts=[FactPhrase(fact='store sales data', phrase='items that were sold in stores in a specific month and year'), FactPhrase(fact='store returns', phrase='which were returned in the next six months of the same year'), FactPhrase(fact='catalog sales', phrase='re-purchased by the returning customer afterwards through the catalog sales channel in the following three years')]

Question : Compute the total discounted amount for a particular manufacturer in a particular 90 day period for catalog sales whose discounts exceeded the average discount by at least 30%.

Answer : input_facts=[FactPhrase(fact='catalog sales', phrase='Compute the total discounted amount for a particular manufacturer in a particular 90 day period for catalog sales whose discounts exceeded the average discount by at least 30%.')]