

Requirement :

You are provided with

- A) Data Model in JSON Format
- B) Reference Table
- C) Table Relationship File
- C) Questions
- D) Sample Answer based on the given Question

You need to fine tune phi3 model to make the model learn the DataModel and Reference Table , such when the user asks the Question ( provided in the Questions file ) it should determine right column and tables and tables relationships.

Example Question

Give me top 5 customer with most number of orders.

Example Output :

**#Required**Columns

```
{
  "table_information": [
    {
      "table_name": "customer_0",
      "table_description": "Stores detailed customer information and behavior",
      "primary_key_column": [
        "customer_id"
      ],
      "columns": [
        {
          "name": "customer_id",
          "description": "Unique identifier for the customer",
          "data_type": "STRING",
          "format": "",
          "is_pii_column": "Y",
          "enum": [],
          "dimension_group": "",
          "is_nullable": "N"
        },
        {
          "name": "first_name",
          "description": "Customer's first name",
```

```

        "data_type": "STRING",
        "format": "CamelCase",
        "is_pii_column": "Y",
        "enum": [],
        "dimension_group": "customer_dimension_group",
        "is_nullable": "N"
    },
    {
        "name": "last_name",
        "description": "Customer's last name",
        "data_type": "STRING",
        "format": "CamelCase",
        "is_pii_column": "Y",
        "enum": [],
        "dimension_group": "customer_dimension_group",
        "is_nullable": "N"
    }
]
},
{
    "table_name": "order",
    "table_description": "Stores detailed records of customer orders",
    "primary_key_column": [
        "order_id",
        "order_item_id"
    ],
    "columns": [
        {
            "name": "order_id",
            "description": "Unique identifier for the order",
            "data_type": "STRING",
            "format": "",
            "is_pii_column": "N",
            "enum": [],
            "is_nullable": "N"
        },
        {
            "name": "customer_id",
            "description": "Unique identifier for the customer",
            "data_type": "STRING",
            "format": "",
            "is_pii_column": "Y",
            "enum": [],
            "is_nullable": "N"
        }
    ]
}

```

```
]
}
```

#### #TableRelationship

```
"relationships": [
  {
    "FromTable": "customer_0",
    "FromColumn": [
      "customer_id"
    ],
    "ToTable": "order",
    "ToColumn": [
      "customer_id"
    ]
  }
]
```