

I am testing agentic application where it play the role for data architect it can unser the buisness context, schema definations and github code to provide the output. Here is I am testing the TPC-H database. I have a GitHub . Now I need to have scehma definations with call schemas with column level description.

ChatGPT said:

The TPC-H benchmark defines a schema comprising eight primary tables, each modeling a specific aspect of a business data environment. Below is an overview of these tables along with their columns and descriptions:

1. **PART**: Details about parts or products.
 - **PARTKEY**: Unique identifier for each part.
 - **NAME**: Name of the part.
 - **MFGR**: Manufacturer of the part.
 - **BRAND**: Brand of the part.
 - **TYPE**: Type or category of the part.
 - **SIZE**: Size specification of the part.
 - **CONTAINER**: Packaging type of the part.
 - **RETAILPRICE**: Retail price of the part.
 - **COMMENT**: Additional comments about the part.
2. **SUPPLIER**: Information about suppliers.
 - **SUPPKEY**: Unique identifier for each supplier.
 - **NAME**: Name of the supplier.
 - **ADDRESS**: Address of the supplier.
 - **NATIONKEY**: Identifier linking to the nation of the supplier.
 - **PHONE**: Contact phone number of the supplier.
 - **ACCTBAL**: Account balance of the supplier.
 - **COMMENT**: Additional comments about the supplier.
3. **PARTSUPP**: Associative table linking parts and suppliers, indicating which supplier supplies which part.
 - **PARTKEY**: Identifier linking to the part.
 - **SUPPKEY**: Identifier linking to the supplier.
 - **AVAILQTY**: Available quantity of the part from the supplier.
 - **SUPPLYCOST**: Cost charged by the supplier for the part.
 - **COMMENT**: Additional comments.
4. **CUSTOMER**: Details about customers.
 - **CUSTKEY**: Unique identifier for each customer.
 - **NAME**: Name of the customer.
 - **ADDRESS**: Address of the customer.
 - **NATIONKEY**: Identifier linking to the nation of the customer.
 - **PHONE**: Contact phone number of the customer.
 - **ACCTBAL**: Account balance of the customer.
 - **MKTSEGMENT**: Market segment of the customer.
 - **COMMENT**: Additional comments about the customer.
5. **ORDERS**: Information about customer orders.
 - **ORDERKEY**: Unique identifier for each order.

- **CUSTKEY**: Identifier linking to the customer who placed the order.
 - **ORDERSTATUS**: Status code of the order.
 - **TOTALPRICE**: Total price of the order.
 - **ORDERDATE**: Date when the order was placed.
 - **ORDERPRIORITY**: Priority level of the order.
 - **CLERK**: Identifier of the sales clerk who handled the order.
 - **SHIPPRIORITY**: Shipping priority assigned to the order.
 - **COMMENT**: Additional comments about the order.
6. **LINEITEM**: Detailed items within each order.
- **ORDERKEY**: Identifier linking to the order.
 - **PARTKEY**: Identifier linking to the part.
 - **SUPPKEY**: Identifier linking to the supplier.
 - **LINENUMBER**: Line number within the order.
 - **QUANTITY**: Quantity of the part ordered.
 - **EXTENDEDPRICE**: Extended price (quantity multiplied by unit price).
 - **DISCOUNT**: Discount applied to the item.
 - **TAX**: Tax applied to the item.
 - **RETURNFLAG**: Return status of the item.
 - **LINESTATUS**: Status of the line item.
 - **SHIPDATE**: Date when the item was shipped.
 - **COMMITDATE**: Date when the item was committed to be shipped.
 - **RECEIPTDATE**: Date when the item was received.
 - **SHIPINSTRUCT**: Shipping instructions for the item.
 - **SHIPMODE**: Mode of shipping for the item.
 - **COMMENT**: Additional comments about the line item.
7. **NATION**: Information about nations.
- **NATIONKEY**: Unique identifier for each nation.
 - **NAME**: Name of the nation.

Sources