File Edit View Query Project Tools Window Help Full Screen

Quick Launch (Ctrl+Q)

SQLQuery1.sql - D...SLCV1V\mhbk8 (52))*

```
USE Sales_db;
GO
CREATE SCHEMA Sales_schema;
GO

CREATE TABLE Sales_db.Sales_schema.client(
client_id int primary key,
city    varchar(15) not null,
region  varchar(15) not null,
country varchar(15) not null
);
CREATE TABLE Sales_db.Sales_schema.product(
product_id int primary key,
name    varchar(15) not null,
category  varchar(15) not null,
services_price numeric(7,2) not null,
sales_price numeric(7,2) not null,
supplier varchar(15) not null
);
CREATE TABLE Sales_db.Sales_schema.date(
date_id    int         primary key,
month      int         not null,
monthName  varchar(15) not null,
quarter    int         not null,
year       int         not null,
);
CREATE TABLE Sales_db.Sales_schema.sales(
date_id          int   references Sales_schema.date (date_id)      ,
product_id       int   references Sales_schema.product (product_id)      ,
client_id        int   references Sales_schema.client (client_id)      ,
delivery_date    date        ,
quantity         int         ,
amount           int         ,

);
```

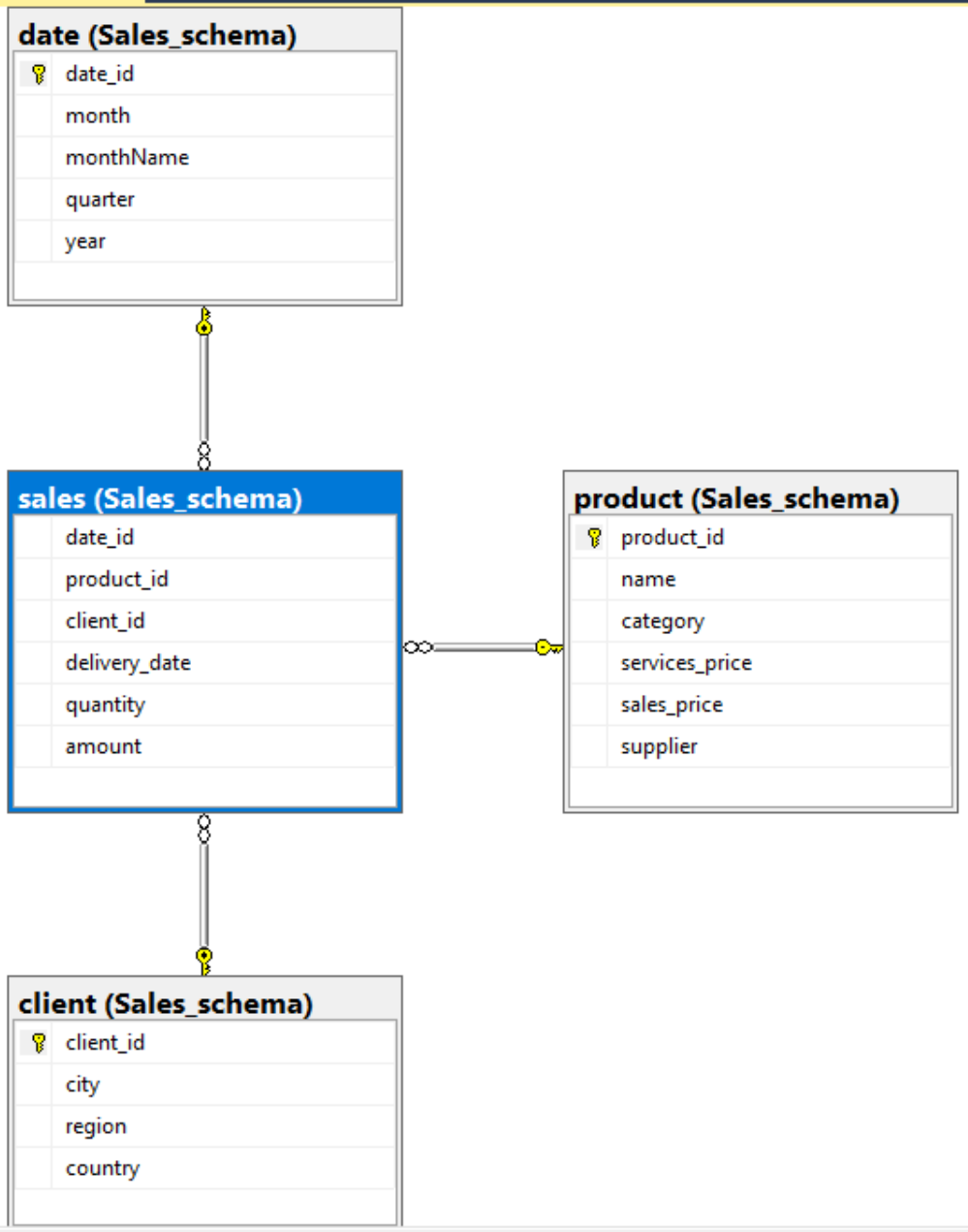
100 %

Messages

100 %

Query executed successfully. | DESKTOP-2SLCV1V (16.0 RTM) | DESKTOP-2SLCV1V\mhbk8 ... | Sales_db | 00:00:00 | 0 rows

Ready Ln 34 Col 32 Ch 32 INS


date (Sales_schema)
date_id
month
monthName
quarter
year
sales (Sales_schema)
date_id
product_id
client_id
delivery_date
quantity
amount
product (Sales_schema)
product_id
name
category
services_price
sales_price
supplier
client (Sales_schema)
client_id
city
region
country

1. State which fact tables and dimension tables are in the star schema for this warehouse

Fact tables : sales

Dimension tables : [date, product, client]

2. What are the measurements?

Quantity, amount, sales price, services price

3. We want to transform this schema into a snowflake schema. Give the new representation of the DATE and CLIENT tables.

File Edit View Query Project Tools Window Help Full Screen Quick Launch (Ctrl+Q)

SQLQuery1.sql - D...SLCV1V\mhbk8 (52))*

```
client_id int primary key,
name    varchar(15) not null
);
CREATE TABLE Sales_db.Sales_schema.location(
city           varchar(15) not null,
region         varchar(15) not null,
country        varchar(15) not null,
client_id      int   references Sales_schema.client (client_id)

);

CREATE TABLE Sales_db.Sales_schema.product(
product_id int primary key,
name    varchar(15) not null,
category  varchar(15) not null,
services_price numeric(7,2) not null,
sales_price numeric(7,2) not null,
supplier varchar(15) not null
);

CREATE TABLE Sales_db.Sales_schema.date(
date_id    int         primary key,
full_date  date
);
SELECT  month(full_date) month,DATENAME(month,full_date) 'Month Name',DATEPART(quarter, full_date) as quarter ,year(full_date) as year
       INTO Sales_db.Sales_schema.date_details
FROM    Sales_db.Sales_schema.date;

ALTER TABLE Sales_db.Sales_schema.date_details
ADD  date_id          int   references Sales_schema.date (date_id)      ;
```

100 %

Messages

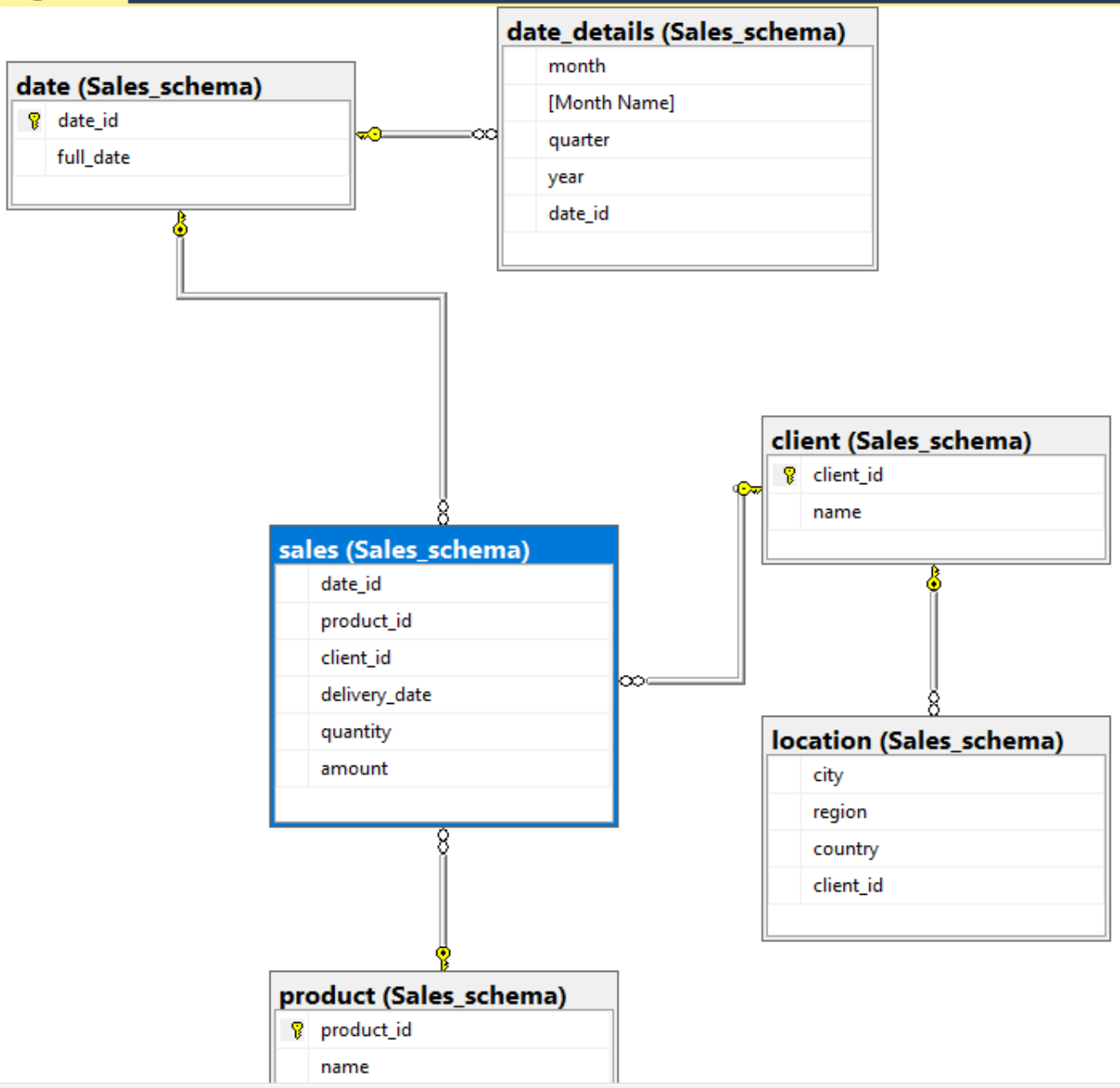
```
Commands completed successfully.

Completion time: 2023-03-23T07:29:26.0660351+02:00
```

100 %

Query executed successfully. DESKTOP-2SLCV1V (16.0 RTM) | DESKTOP-2SLCV1V\mhbk8 ... | Sales_db | 00:00:00 | 0 rows

Ready Ln 28 Col 42 Ch 42 INS

4. Design the corresponding snowflake schema.


date_details (Sales_schema)
month
[Month Name]
quarter
year
date_id
date (Sales_schema)
date_id
full_date
client (Sales_schema)
client_id
name
sales (Sales_schema)
date_id
product_id
client_id
delivery_date
quantity
amount
location (Sales_schema)
city
region
country
client_id
product (Sales_schema)
product_id
name

Another representation of the product and CLIENT tables.

File Edit View Query Project Tools Window Help Full Screen Quick Launch (Ctrl+Q)

SQLQuery1.sql - D...SLCV1V\mhbk8 (58))*

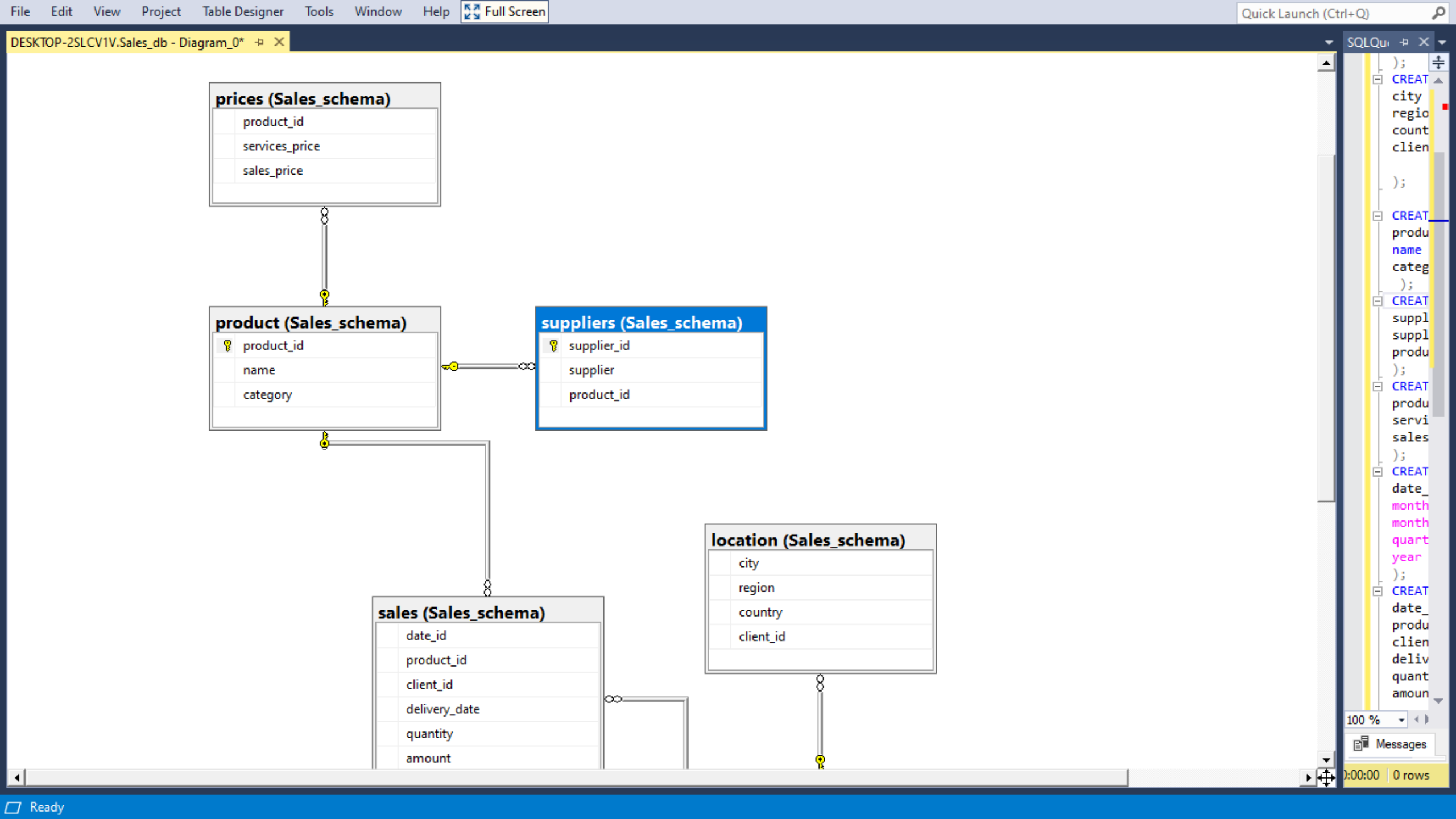
```
GO

CREATE TABLE Sales_db.Sales_schema.client(
client_id int primary key,
name    varchar(15) not null
);
CREATE TABLE Sales_db.Sales_schema.location(
city           varchar(15) not null,
region         varchar(15) not null,
country        varchar(15) not null,
client_id      int   references Sales_schema.client (client_id)

);

CREATE TABLE Sales_db.Sales_schema.product(
product_id int primary key,
name    varchar(15) not null,
category  varchar(15) not null,
 );
CREATE TABLE Sales_db.Sales_schema.suppliers(
supplier_id int primary key,
supplier varchar(15) not null,
product_id       int   references Sales_schema.product (product_id)
);
CREATE TABLE Sales_db.Sales_schema.prices(
product_id       int   references Sales_schema.product (product_id),
services_price numeric(7,2) not null,
sales_price numeric(7,2) not null,
);
CREATE TABLE Sales_db.Sales_schema.date(
date_id    int         primary key,
month      int         not null,
monthName  varchar(15) not null,
quarter    int         not null,
year       int         not null,
);
CREATE TABLE Sales_db.Sales_schema.sales(
date_id          int   references Sales_schema.date (date_id)      ,
```

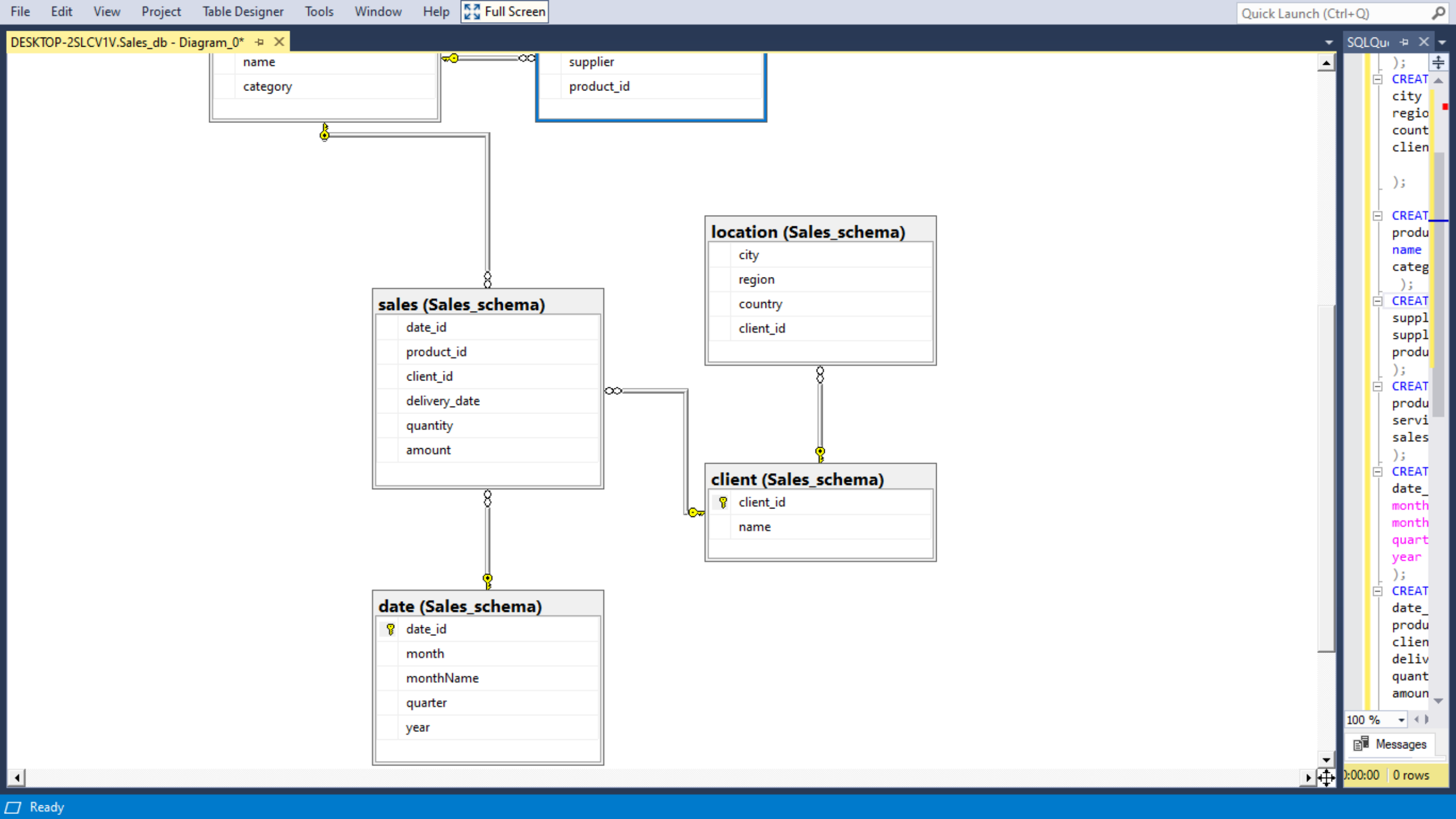
100 %

Messages

Query executed successfully. DESKTOP-2SLCV1V (16.0 RTM) | DESKTOP-2SLCV1V\mhbk8 ... | Sales_db | 00:00:00 | 0 rows

Ready Ln 27 Col 69 Ch 69 INS


File
Edit
View
Project
Table Designer
Tools
Window
Help
Full Screen
Quick Launch (Ctrl+Q)
DESKTOP-2SLCV1V.Sales_db - Diagram_0*
prices (Sales_schema)
product_id
services_price
sales_price
product (Sales_schema)
product_id
name
category
suppliers (Sales_schema)
supplier_id
supplier
product_id
location (Sales_schema)
city
region
country
client_id
sales (Sales_schema)
date_id
product_id
client_id
delivery_date
quantity
amount
SQLQu
100 %
Messages
0 rows
Ready


File
Edit
View
Project
Table Designer
Tools
Window
Help
Full Screen
Quick Launch (Ctrl+Q)
DESKTOP-2SLCV1V.Sales_db - Diagram_0*
name
category
supplier
product_id
location (Sales_schema)
city
region
country
client_id
sales (Sales_schema)
date_id
product_id
client_id
delivery_date
quantity
amount
client (Sales_schema)
client_id
name
date (Sales_schema)
date_id
month
monthName
quarter
year
SQLQu
100 %
Messages
0 rows
Ready