**SQL Query Test**

**Queries**

**#1**

select \* from City

where COUNTRYCODE='USA' and POPULATION > 12500

**#2**

select Transactions.transaction\_id, Products.product\_name, Locations.location\_name, Transactions.transaction\_date

from (Transactions

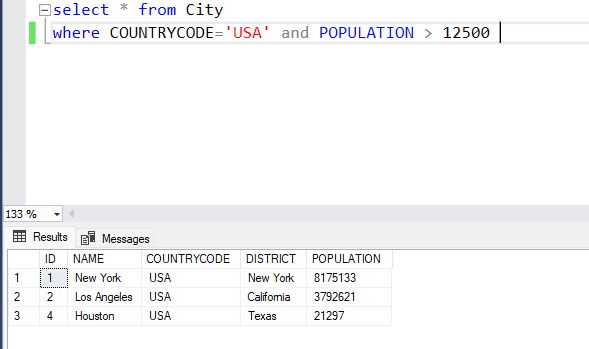
inner join Products on Transactions.product\_id = Products.product\_id)

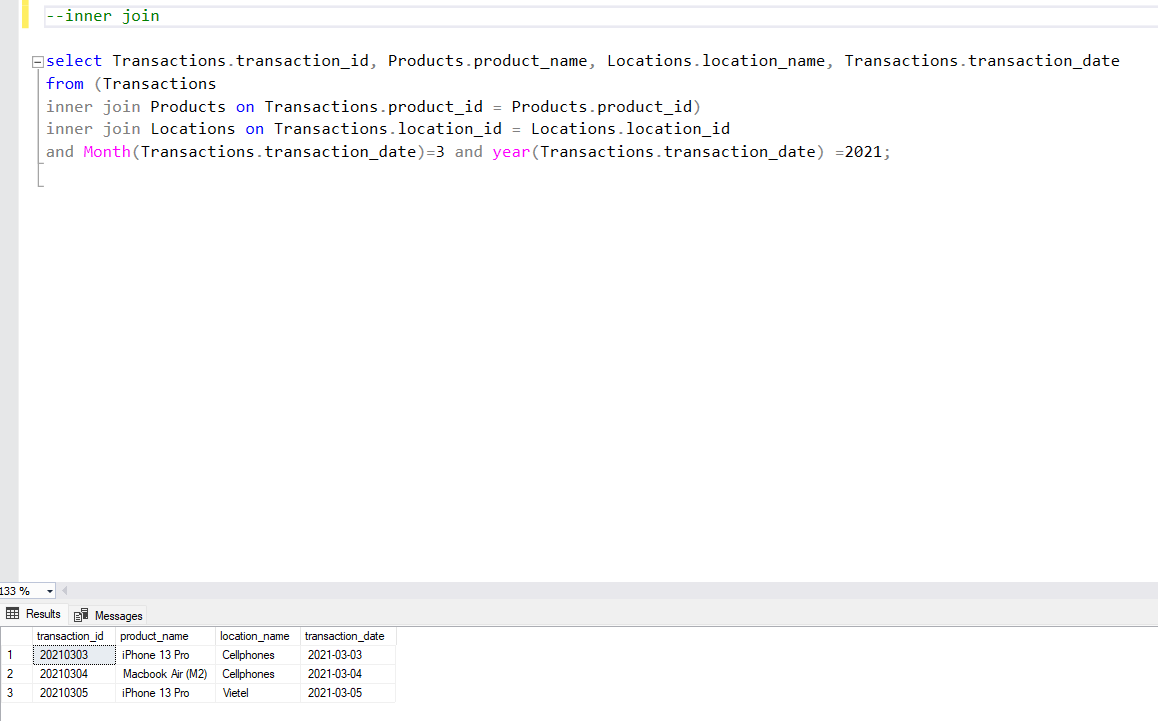
inner join Locations on Transactions.location\_id = Locations.location\_id

and Month(Transactions.transaction\_date)=3 and year(Transactions.transaction\_date) =2021;

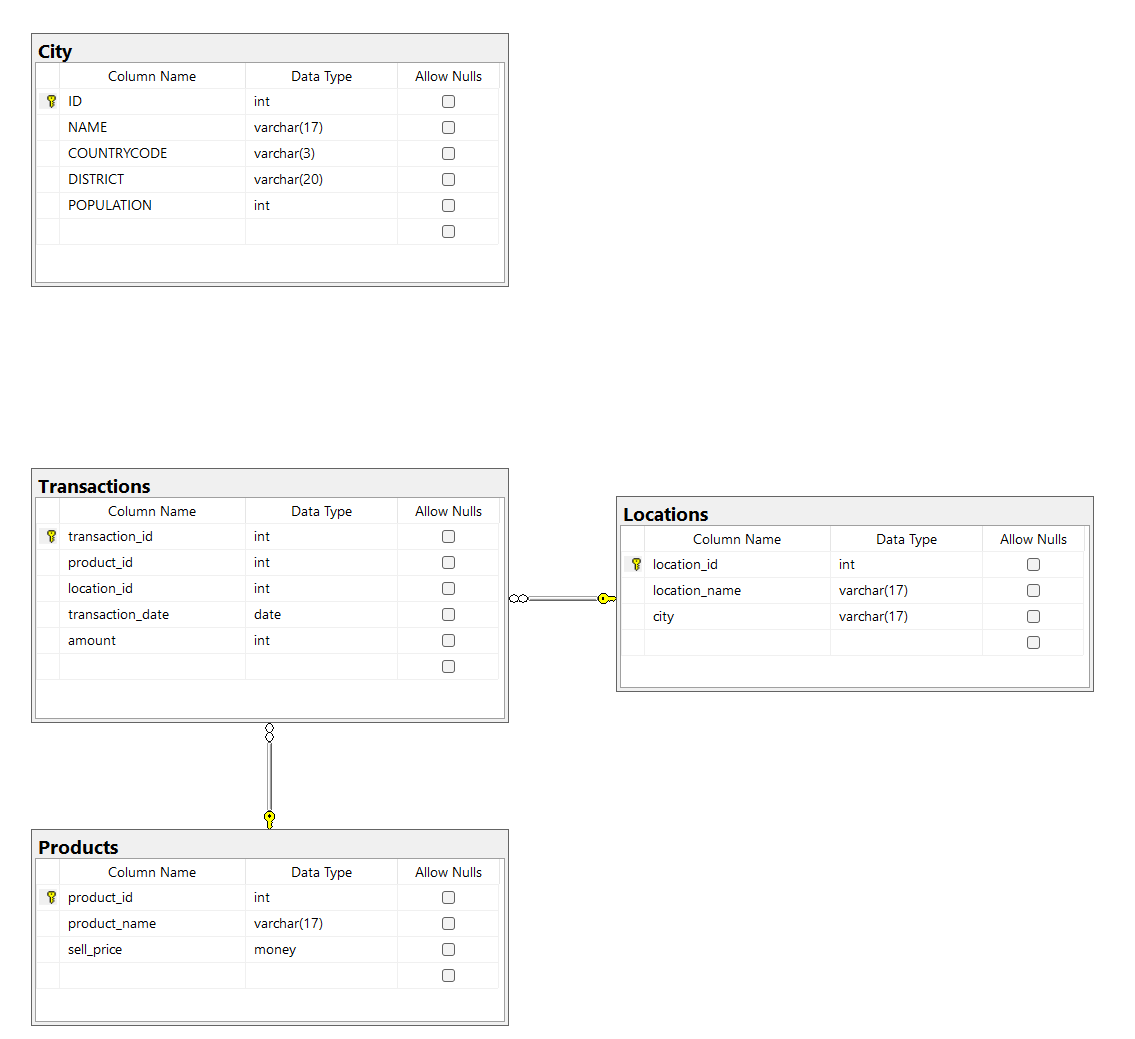
**Query results in SQL Server, Schema, and script with test data:**

**Query results:**





**Schema:**



**Database script:**

USE master;

GO

IF EXISTS ( SELECT name

FROM master..sysdatabases

WHERE name = 'JobAdder'

)

DROP DATABASE JobAdder;

GO

CREATE DATABASE JobAdder;

GO

USE JobAdder;

GO

-- tables

-- City

CREATE TABLE City

(

ID INT NOT NULL,

NAME VARCHAR(17) NOT NULL,

COUNTRYCODE VARCHAR(3) NOT NULL,

DISTRICT VARCHAR(20) NOT NULL,

POPULATION INT NOT NULL,

CONSTRAINT ID\_pk PRIMARY KEY (ID)

);

GO

--Products

CREATE TABLE Products

(

product\_id INT NOT NULL,

product\_name varchar(17) NOT NULL,

sell\_price money NOT NULL,

CONSTRAINT product\_id\_pk PRIMARY KEY (product\_id)

);

GO

--Locations

CREATE TABLE Locations

(

location\_id int NOT NULL,

location\_name varchar(17) NOT NULL,

city varchar(17)NOT NULL,

CONSTRAINT location\_id\_pk PRIMARY KEY (location\_id)

);

GO

--Transactions

CREATE TABLE Transactions

(

transaction\_id INT NOT NULL,

product\_id INT NOT NULL,

location\_id INT NOT NULL,

transaction\_date DATE NOT NULL,

amount INT NOT NULL

CONSTRAINT transaction\_id\_pk PRIMARY KEY (transaction\_id),

CONSTRAINT product\_id\_fk FOREIGN KEY (product\_id) REFERENCES products (product\_id),

CONSTRAINT location\_id\_fk FOREIGN KEY (location\_id) REFERENCES locations (location\_id)

);

GO

-- DATA

INSERT INTO City (ID, NAME, COUNTRYCODE, DISTRICT, POPULATION) VALUES

(1, 'New York', 'USA', 'New York', 8175133),

(2, 'Los Angeles', 'USA', 'California', 3792621),

(3, 'Chicago', 'USA', 'Illinois', 2695),

(4, 'Houston', 'USA', 'Texas', 21297),

(5, 'Toronto', 'CAN', 'Ontario', 2731571),

(6, 'Vancouver', 'CAN', 'British Columbia', 631486),

(7, 'London', 'GBR', 'England', 8908081),

(8, 'Berlin', 'DEU', 'Berlin', 3769495),

(9, 'Tokyo', 'JPN', 'Kanto', 13929286),

(10, 'Sydney', 'AUS', 'New South Wales', 5230330);

GO

INSERT INTO Products (product\_id,product\_name,sell\_price) VALUES

(234,'iPhone 13 Pro',1200),

(235, 'Macbook Air (M2)', 4200);

GO

INSERT INTO Locations (location\_id,location\_name,city) VALUES

(2,'Cellphones','HCMC'),

(3,'Vietel','HCMC');

GO

INSERT INTO Transactions (transaction\_id, product\_id, location\_id, transaction\_date,amount)VALUES

(20210103,234,2,'2021-01-03',6),

(20210104,235,3,'2021-01-04',8),

(20210105,234,3,'2021-01-05',9),

(20210303,234,2,'2021-03-03',5),

(20210304,235,2,'2021-03-04',9),

(20210305,234,3,'2021-03-05',4);

GO