SQL Project

Bruno Tucci

Notes:

• There is a 1:1 relation between customer\_id and policy\_id

• There is a many:1 relation between claims\_id and policy\_id

• All customers have one car make and model

• All policies last 1 year and have start dates between 1/1/19 to 8/1/20

• The premium\_amount is an annual amount

* All claims are for accidents as opposed to theft or property damage

-- Create the Customers table

create table Customers (

Customer\_ID integer,

Policy\_ID varchar(12) not null,

First\_Name varchar(255) ,

Last\_Name varchar(255) ,

Customer\_Type varchar(30) ,

City varchar(100) ,

Birthday date ,

Age integer,

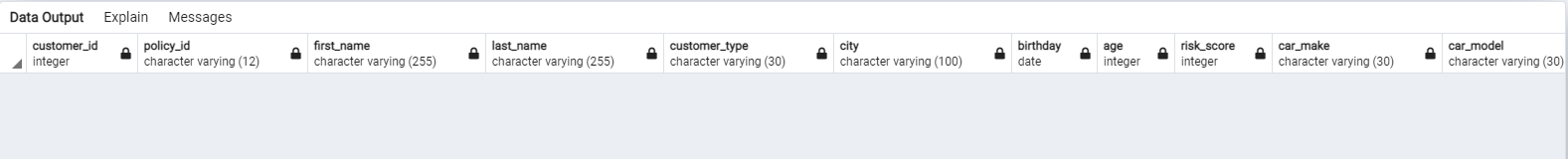
Risk\_Score float,

Car\_Make varchar (30),

Car\_Model varchar (30)

);

Select \* from customer



--Populate the Customers table with data

copy customers(Customer\_ID, Policy\_ID, First\_Name, Last\_Name, Customer\_Type, City, Birthday, Age, Risk\_Score, Car\_Make, Car\_Model)

from 'E:\Generic non-employee laptop\bruno\Business\Credentials\Tech\CUNY-LAG\03 SQL\08 210902\Customers.csv'

delimiter ',' CSV header

select \* from customers

Table

Description automatically generated

-- Create the Policies table

create table Policies (

Policy\_ID varchar(11) not null,

Customer\_ID integer not null,

Start\_Date date,

End\_Date date,

Policy\_Limit int,

Premium\_Amount int

);

Select \* from Policies

Graphical user interface, application

Description automatically generated

--Populate the Policies table with data

copy policies(Policy\_ID, Customer\_ID, Start\_Date, End\_Date, Policy\_Limit, Premium\_Amount)

from 'E:\Generic non-employee laptop\bruno\Business\Credentials\Tech\CUNY-LAG\03 SQL\08 210902\Policies.csv'

delimiter ',' CSV header

Table

Description automatically generated

--Create the Claims table

create table Claims (

Claim\_ID varchar(11) not null,

Policy\_ID varchar(11) not null,

Claim\_Receipt\_Date date,

Claim\_Description varchar(30),

Claim\_Amount int,

Claim\_Paid\_Date date

);

Select \* from Claims

Graphical user interface, text, application

Description automatically generated

-- Populate the Claims table with data

copy Claims(Claim\_ID, Policy\_ID, Claim\_Receipt\_Date, Claim\_Description, Claim\_Amount, Claim\_Paid\_Date)

from 'E:\Generic non-employee laptop\bruno\Business\Credentials\Tech\CUNY-LAG\03 SQL\08 210902\Claims.csv'

delimiter ',' CSV header

select \* from Claims

Table

Description automatically generated

--Which customers had the most number of claims ?

select distinct customer\_id, first\_name, last\_name, count(claim\_id) as "claim count"

from customers join claims on customers.policy\_id = claims.policy\_id

group by customer\_id, first\_name, last\_name

order by "claim count" desc

Table

Description automatically generated

-- Which customers had the most claim amounts ?

select distinct customer\_id, first\_name, last\_name, sum(claim\_amount) as "claim total"

from customers join claims on customers.policy\_id = claims.policy\_id

group by customer\_id, first\_name, last\_name

order by "claim total" desc

Table

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-- Which ages had the highest risk scores ?

select age, risk\_score from customers

where risk\_score >7

order by risk\_score desc

Table

Description automatically generated

-- Which vehicles were involved with the most claims ?

select distinct car\_make, car\_model, count(claim\_id) as "claim count"

from customers join claims on customers.policy\_id = claims.policy\_id

group by car\_make, car\_model

order by "claim count" desc

Graphical user interface, application, table

Description automatically generated

-- What were the home cities of the customers with the most claims ?

select distinct city, sum(claim\_amount) as "claim amount"

from customers join claims on customers.policy\_id = claims.policy\_id

group by city

order by "claim amount" desc

Table

Description automatically generated

--Did individual or business customers incur the most claim amounts ?

select distinct customer\_type, sum(claim\_amount) as "claim amount"

from customers join claims on customers.policy\_id = claims.policy\_id

group by customer\_type

order by "claim amount" desc

Table

Description automatically generated