Database Project Assignment 6: Queries and Results

Create 20 unique queries in SQL and provide screenshots of the results.

10 or more queries should be **complex** (using JOIN, ORDER BY, subqueries, AND, HAVING, etc.)

Please upload a word doc to Moodle and GitHub. Discuss your assignment on Flipgrid.

Example (complex):

We will be offering a 20% off sale for the Texas locations. We need the email addresses, first and last names, and customer IDs, and the state they live in so we can send the customers that go to the Texas locations the promotion via email.

select CustomerID, FirstName, LastName, c.State, c.Email, l.LocationID

From Customer as c

Join Location as l

on c.LocationID=l.LocationID

where c.State = 'TX';

Table

Description automatically generated

Unique Query (1)

select \* from superhero

where powerType = "combat"

Here a customer wanted to know which superheroes in the Marvel Studios Universe fit well in the category of hand-to-hand combat. So thus we can send out all the hero’s who fit in the category of ‘combat’ which is related to their general power type.

Text

Description automatically generated with medium confidence

Unique Query (2) (complex.1)

select A.supename as supename1, B.supename as supename2, A.home\_location

from superhero A, superhero B

where A.superheroID <> B.superheroID

and A.home\_location = B.home\_location

order by A.home\_location;

This sql query shows a customer wanting to know which hero’s are living in the same home location.

Graphical user interface, text, application

Description automatically generated

Unique Query (3) (complex.2)

select A.supename as supename1, B.supename as supename2, A.powerType

from superhero A, superhero B

where A.superheroID <> B.superheroID

and A.powerType = B.powerType

order by A.powerType;

Lets say a customer wanted to access the marvel database to gather information on which superhero’s share the same powertype. Well the sql query below shows us which hero’s do.

Graphical user interface, text

Description automatically generated

Unique Query (4) (complex.3)

select A.supename as supename1, B.supename as supename2, A.supeage

from superhero A, superhero B

where A.superheroID <> B.superheroID

and A.supeage = B.supeage

order by A.supeage;

With this query a customer is searching for what super heros share the same age and groups them together from youngest to oldest.

Graphical user interface, text

Description automatically generated

Unique Query (5) (complex.4)

select count(superheroID), origin\_ID

from superhero

group by origin\_ID

order by count(superheroID) desc;

A customer was looking around the database and was curious as to how many supes live in a single location based off of the 20 hero’s listed. The following sql query shows the number of superhero’s in each location from highest to lowest.

Graphical user interface, text, application, email

Description automatically generated

Unique Query (6) (complex.5)

select origin\_ID from superhero

union

select origin\_ID from Nemesis

order by origin\_ID;

A user wanted to gather information as to all of the loctations superhero’s and their nemesis are from. The following sql query gathers all origin\_ID locations from bothe the superhero table and the Nemesis table.

Graphical user interface, text, application

Description automatically generated

Unique Query (7) (complex.6)

select superheronem\_ID from superhero

union

select superheronem\_ID from Nemesis

order by superheronem\_ID;

The Marvel studios company can gather a list of all supervillains/nemesis of every hero and list them in alphabetical order.

Graphical user interface, text, application

Description automatically generated

Unique Query (8) (complex.7)

select A.superheronem\_ID as superheronem\_ID1, B.superheronem\_ID as superheronem\_ID2, A.nem\_age

from Nemesis A, Nemesis B

where A.superheronem\_ID <> B.superheronem\_ID

and A.nem\_age = B.nem\_age

order by A.nem\_age;

With this query a customer is searching for what super villians share the same age and groups them together from youngest to oldest.

Graphical user interface, text, application

Description automatically generated

Unique Query (9) (complex.8)

select A.superheronem\_ID as superheronem\_ID1, B.superheronem\_ID as superheronem\_ID2, A.powerType

from Nemesis A, Nemesis B

where A.superheronem\_ID <> B.superheronem\_ID

and A.powerType = B.powerType

order by A.powerType;

Lets say a customer wanted to access the marvel database to gather information on which villians share the same powertype. In this sql query below shows us which villians do.

Graphical user interface, text

Description automatically generated

Unique Query (10) (complex.9)

select A.superheronem\_ID as superheronem\_ID1, B.superheronem\_ID as superheronem\_ID2, A.origin\_ID

from Nemesis A, Nemesis B

where A.superheronem\_ID <> B.superheronem\_ID

and A.origin\_ID = B.origin\_ID

order by A.origin\_ID;

This sql query shows a customer wanting to know which villians are where born in the same home location/area/city.

Graphical user interface, text, application

Description automatically generated

Unique Query (11) (complex.10)

select count(nemesis\_ID), origin\_ID

from Nemesis

group by origin\_ID

order by count(nemesis\_ID) desc;

A customer was looking around the database and was curious as to how many villians live in a single location based off of the 20 villians listed. The following sql query shows the number of super villians in each location from highest to lowest.

Graphical user interface, text, application

Description automatically generated

Unique Query (12)

select \* from superhero

where powerType = "magic"

Here a customer wanted to know which superheroes in the Marvel Studios Universe fit well in the category of the mystical arts. So thus we can send out all the hero’s who fit in the category of ‘magic’ which is related to their general power type.

Graphical user interface, text, application

Description automatically generated

Unique Query (13)

select \* from superhero

where powerType = "flight"

Here a customer wanted to know which superheroes in the Marvel Studios Universe fit well in the category of being able to fly. So thus we can send out all the hero’s who fit in the category of ‘flight’ which is also related to their general power type.

Graphical user interface, text, application

Description automatically generated

Unique Query (14)

select \* from superhero

where powerType = "strength"

Here a customer wanted to know which superheroes in the Marvel Studios Universe fit well in the category of having super strength. So thus we can send out all the hero’s who fit in the category of ‘strength’ containing such in which hero’s who are really strong, which is related to their general power type.

Graphical user interface, text

Description automatically generated

Unique Query (15)

select \* from Nemesis

where nem\_age = "100000"

The Marvel Studio company can show customers the age of say super villians that exceed beyond 100+.

Graphical user interface, text

Description automatically generated

Unique Query (16)

select \* from abilities

where power\_origin = "born with it"

Say if a customer wants to search for abilities that hero’s where born with the following sql query shows an example of what type of powers hero’s can be born with.

Graphical user interface, text, application

Description automatically generated

Unique Query (17)

select \* from Nemesis

where superheronem\_ID = "Ultron"

The marvel company can also give the customers the ability to search for information about certain villains like the query shows below.

Graphical user interface, text, application, email

Description automatically generated

Unique Query (18)

select \* from Nemesis

where superheronem\_ID = "Doc Oc"

The marvel company can also give the customers the ability to search for information about certain villains like the query shows below.

Graphical user interface, text, application, email

Description automatically generated

Unique Query (19)

select \* from Nemesis

where origin\_ID = "Russia"

This sql query shows all supervillains who were born in the same location. This location being all villains born in Russia.

Graphical user interface, text, application

Description automatically generated

Unique Query (20)

select \* from Power

where speed = "Quicksilver"

Suppose a customer is looking for a certain hero’s power type and in addition to that wants to receive other type’s of hero’s and there power type as well. With the query below with a simple change of a hero’s name in a certain powertype the query will generate other heros in the other power type categories.

Graphical user interface, text, application, email

Description automatically generated