Motor, Chandrahas
A20523718

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Experiment -1 (EDGEQL)

Requirement -1 : It doesn't generate any output in the ipynb file i.e. in the script. Rather it builds all the relation and stores data into the db.

Requirement - 2 : Write and execute an EdgeQL/Python code to retrieve all businesses with 5 stars from Yelp Graph-Relational Data Model you created in **Requirement 1**

Output :
Miro Statue
Sushi Dokku
Mindworks
Yelp Elite Battle Of The Band T's @ RAISED Urban Rooftop Bar
Bhoomi Modern Indian Grill
Feed Your Head
The Flamingo By Alexander Calder
Bereket Turkish Mediterranean Restaurant
LaShuk Street Food
Happy Monday Coffee - Loop
Picasso Statue
State Street, That Great Street
Cascade Park
Ron Christian
Marshall Field and Company Building
7-Eleven
Pedal-Powered Produce Party
Espresso and Milk
Wabash Arts Corridor
Chicago Skyline
Stivers Coffee
Museum Campus
Chi Yatai
Theme House
J's Snack House
Canal Street Eatery & Market
Momentum Coffee
Nine Bar
MiMi's Tacos and French Fries
Lake Front Path Sledding Hill
Valhalla
The Embassy Public House
Quesadilla Pilsen

Quesabirria Jalisco
Sabores De Michoacán
Poke Poké
Taylor Street Tap
Little Joe's
Chocolat Uzma
Skinner Park
Cake Sweet Food Chicago
Gathers Tea Bar
uncooked
Sushi by Bou - West Loop
Fiesta Tamaleria Del Barrio
Chato's Pasta House
pig & fire
Laos To Your House
Muse Coffee Studio
Luna Llena Apothecary
D's Roti & Trini Cuisine
La Malinche Coffee & Tea House
Aloha Wagon
Five Squared Pizza
Masa Madre
Beyond Rice
Bartleby's Ice Cream Cakes
Taco Loco Of Pilsen
Carniceria Maribel
Typica Diner & Cafe Taylor St
Boba Plug's Teahouse
Nia Drink & Dessert
BULSHO restaurant
Crumbl Cookies - Lincoln Park
BamBooQue
Kuma San Japanese Restaurant
Architectural Artifacts
Baba Pita
Ludlow Charlingtons Coffee Shop
3 Little Pigs Chi
Red Light Chicken
2AM Izakaya
Pretty Cool Ice Cream
Olor Coffee
Cedar Palace
Lincoln Park Chess Pavilion
Adams Playground Park
Bridge Over Lincoln Park Zoo's South Pond
EuroAsia Restaurant

Loud Mouth Food Bikes
Bunker
North Pond Nature Sanctuary
Crepe Twist
Ringo
Naudi Signature Pizza
Emeche Cakery & Cafe
River Esplanade Park
Junebug Cafe
Pioneer Court
Centennial Fountain and Water Arc
Lakefront Trail
The Luminary Cafe & Bar
Justice of the Pies
The Gentlemen Statues
Farmer's Fridge
Porter's Steakhouse
Bianca's BBQ
Keadkao Express
Occupy Chicago
Flash UYE: Chicago Cultural Center
The Flight of Daedalus and Icarus By Roger Brown 1991
Wolverine Trading Kitchen
Louise Nevelson's Dawn Shadows
Project Windows Design Contest
Bagels Time
National Restaurant Association
Dunkin'
Salads UP
Cupcakes & Cocktails
Friends Sushi
TourBound Golf Academy
300 S Wacker
Maharaj Indian Grill
Roosevelt Park
Hunan Bistro
Mary Richardson Jones Park
The Arena Club at Soldier Field
Gold Star Family Memorial Park
Paleteria Los Magos
Soul Full Chicago
Mandala Cafe
Sunny & Fine's Breakfast Burritos
Taqueria Ofrenda
Holy Grounds at St. Paul Catholic Church
Bernard's

Chickpea
Kitchen Keto
Masala Pizza Company
Starbucks Pickup
Chicago French Press
Talbott Cucina
Mariposa
The Paul and Gabriella Rosenbaum Garden
Te'amo Boba Bar
Bar on 4
Bar 75
Chicago Butter Cookies
Movie Mondays at the Drake's Palm Court
Protein Bar & Kitchen
Rapt on the Mile
Cochon 555
Jane M. Byrne Plaza
Field Museum Dig Site
Chez Paul
Ciccio
The Bistro
Peacock Lounge
Edison's Corner
Ineeka
Doll's Kitchen And Catering
Cuisines by Sammy
Chicago Artizen
The Club house
Zarsh Restaurant
Liberation Kitchen
Desi Chops
Haute Diggity Dawgs Restaurant
Livingston Park
Ida's Artisan Ice Cream & Treats
All Rise Brewing Company
tea hot coffee
FanDuel
Farmer's Fridge
Multilevel Streets of Chicago
Surprise Oprah! A Farewell Spectacular
Atkins Medicinal Plant Garden
Uni Uni Tea - Lincoln Park
The Green
Fons Empanadas
KALA Modern Greek
Lakeview Smoke Shop

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Requirement 3 : Write and excute an EdgeQL/Python code to retrieve all businesses that offer **Chicago Pizza Style** in Zip-Code 60601 from Yelp Graph-Relational Data Model you created in **Requirement 1**

Output:
Millennium Hall
Paisans Pizzeria
Five Squared Pizza
Naudi Signature Pizza
Robert's Pizza and Dough
Bongiorno's Italian Deli & Pizzeria
Giordano's - Jackson
Giordano's
Exchequer Restaurant & Pub
The Florentine
Bureau Pizza
Fontano's
Reggie's Pizza Express
Pat's Pizzeria
Luke's Italian Beef
Gino's East - South Loop
Pizano's Pizza
Blaze Pizza
Pizza Beer & Jukebox
Bonci
Eataly Chicago
Giordano's - Navy Pier
Coco Pazzo Cafe
The Water Hole Chicago
Pompei

Requirement -4: Write and excute an EdgeQL/Python code to retrieve top (highest count of reviews) 5 businesses that offer **Chicago Hot Dogs** in Zip-Code 60605 from Yelp Graph-Relational Data Model you created in **Requirement 1**

Output:
Jim's Original
Kim & Carlo's Hot Dog Stand
Lulu's Hot Dogs
Express Grill
Kong Dog

Requirement -5: Write and excute an EdgeQL/Python code to print the 3 reviews of the top (highest count of reviews) 3 businesses that offer Steak in Zip-Code 60611 from Yelp Graph-Relational Data Model you created in Requirement 1

Output:
Joe's Seafood, Prime Steak & Stone Crab
Joe's Seafood, Prime Steak & Stone Crab
Prime & Provisions
Prime & Provisions
Prime & Provisions
Michael Jordan's Steak House
Michael Jordan's Steak House
Hugo's Frog Bar & Fish House
Hugo's Frog Bar & Fish House

Requirement -6: Write and excute an EdgeQL/Python code to retrieve top (highest count of reviews) 5 businesses that offer Hot Dogs in Community Area Lincoln Park from Yelp Graph-Relational Data Model you created in Requirement 1

Output:
Annette's Italian Ice
Jeni's Splendid Ice Creams
Terry's Toffee
Crepe Twist
Pretty Cool Ice Cream

Requirement -7: Write and execute an EdgeQL/Python code to print the 3 reviews of the top (highest count of reviews) 3 businesses that offer Steak in Community Area Chicago from Yelp Graph-Relational Data Model you created in Requirement 1

Output:
Prime & Provisions
Ocean Prime
Grill on 21
Ocean Prime
Joe's Seafood, Prime Steak & Stone Crab
The Capital Grille
Eddie V's Prime Seafood
Prime & Provisions
Steak 48
Remington's
Grill on 21
Morton's The Steakhouse
Bazaar Meat by José Andrés
The Grillroom Chophouse & Wine Bar
The X Pot

RL Restaurant
Carson's
Rosebud Steakhouse
Torali
Hugo's Frog Bar & Fish House
Stetsons Modern Steak + Sushi
Bistronomic
Michael Jordan's Steak House
Ocean Prime
Joe's Seafood, Prime Steak & Stone Crab
The Capital Grille
Eddie V's Prime Seafood
Prime & Provisions
Steak 48
Remington's
Grill on 21
Morton's The Steakhouse
Bazaar Meat by José Andrés
The Grillroom Chophouse & Wine Bar
The X Pot
RL Restaurant
Carson's
Rosebud Steakhouse
Torali
Hugo's Frog Bar & Fish House
Stetsons Modern Steak + Sushi
Bistronomic
Michael Jordan's Steak House

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Experiment -2 (GRAPHQL)

Requirement -1: This doesn't give any output in the ipynb file. It helps in storing the data with the help of given graphql queries into the db.

Requirement -2:
Output:
{"data":{"Business" : [{"name" : "Miro Statue"},{"name" : "Sushi Dokku"},{"name" : "Mindworks"},{"name" : "Yelp Elite Battle Of The Band T's @ RAISED Urban Rooftop Bar"},{"name" : "Bhoomi Modern Indian Grill"},{"name" : "Feed Your Head"},{"name" : "The Flamingo By Alexander Calder"},{"name" : "Bereket Turkish Mediterranean Restaurant"},{"name" : "LaShuk Street Food"},{"name" : "Happy Monday Coffee - Loop"},{"name" : "Picasso Statue"},{"name" : "State Street, That Great Street"},{"name" : "Cascade Park"},{"name" : "Ron Christian"},{"name" : "Marshall Field and Company Building"},{"name" : "7-Eleven"},{"name" : "Pedal-Powered Produce Party"},{"name" : "Espresso and Milk"},{"name" : "Wabash Arts Corridor"},{"name" : "Chicago

Skyline"},{"name" : "Stivers Coffee"},{"name" : "Museum Campus"},{"name" : "Chi Yatai"},{"name" : "Theme House"},{"name" : "J's Snack House"},{"name" : "Canal Street Eatery & Market"},{"name" : "Momentum Coffee"},{"name" : "Nine Bar"},{"name" : "MiMi's Tacos and French Fries"},{"name" : "Lake Front Path Sledding Hill"},{"name" : "Valhalla"},{"name" : "The Embassy Public House"},{"name" : "Quesadilla Pilsen"},{"name" : "Quesabirria Jalisco"},{"name" : "Sabores De Michoacán"},{"name" : "Poke Poké"},{"name" : "Taylor Street Tap"},{"name" : "Little Joe's"},{"name" : "Chocolat Uzma"},{"name" : "Skinner Park"},{"name" : "Cake Sweet Food Chicago"},{"name" : "Gathers Tea Bar"},{"name" : "uncooked"},{"name" : "Sushi by Bou - West Loop"},{"name" : "Fiesta Tamaleria Del Barrio"},{"name" : "Chato's Pasta House"},{"name" : "pig & fire"},{"name" : "Laos To Your House"},{"name" : "Muse Coffee Studio"},{"name" : "Luna Llena Apothecary"},{"name" : "D's Roti & Trini Cuisine"},{"name" : "La Malinche Coffee & Tea House"},{"name" : "Aloha Wagon"},{"name" : "Five Squared Pizza"},{"name" : "Masa Madre"},{"name" : "Beyond Rice"},{"name" : "Bartleby's Ice Cream Cakes"},{"name" : "Taco Loco Of Pilsen"},{"name" : "Carniceria Maribel"},{"name" : "Typica Diner & Cafe Taylor St"},{"name" : "Boba Plug's Teahouse"},{"name" : "Nia Drink & Dessert"},{"name" : "BULSHO restaurant"},{"name" : "Crumbl Cookies - Lincoln Park"},{"name" : "BamBooQue"},{"name" : "Kuma San Japanese Restaurant"},{"name" : "Architectural Artifacts"},{"name" : "Baba Pita"},{"name" : "Ludlow Charlingtons Coffee Shop"},{"name" : "3 Little Pigs Chi"},{"name" : "Red Light Chicken"},{"name" : "2AM Izakaya"},{"name" : "Pretty Cool Ice Cream"},{"name" : "Olor Coffee"},{"name" : "Cedar Palace"},{"name" : "Lincoln Park Chess Pavilion"},{"name" : "Adams Playground Park"},{"name" : "Bridge Over Lincoln Park Zoo's South Pond"},{"name" : "EuroAsia Restaurant"},{"name" : "Loud Mouth Food Bikes"},{"name" : "Bunker"},{"name" : "North Pond Nature Sanctuary"},{"name" : "Crepe Twist"},{"name" : "Ringo"},{"name" : "Naudi Signature Pizza"},{"name" : "Emeche Cakery & Cafe"},{"name" : "River Esplanade Park"},{"name" : "Junebug Cafe"},{"name" : "Pioneer Court"},{"name" : "Centennial Fountain and Water Arc"},{"name" : "Lakefront Trail"},{"name" : "The Luminary Cafe & Bar"},{"name" : "Justice of the Pies"},{"name" : "The Gentlemen Statues"},{"name" : "Farmer's Fridge"},{"name" : "Porter's Steakhouse"},{"name" : "Bianca's BBQ"},{"name" : "Keadkao Express"},{"name" : "Occupy Chicago"},{"name" : "Flash UYE: Chicago Cultural Center"},{"name" : "The Flight of Daedalus and Icarus By Roger Brown 1991"},{"name" : "Wolverine Trading Kitchen"},{"name" : "Louise Nevelson's Dawn Shadows"},{"name" : "Project Windows Design Contest"},{"name" : "Bagels Time"},{"name" : "National Restaurant Association"},{"name" : "Dunkin'"},{"name" : "Salads UP"},{"name" : "Cupcakes & Cocktails"},{"name" : "Friends Sushi"},{"name" : "TourBound Golf Academy"},{"name" : "300 S Wacker"},{"name" : "Maharaj Indian Grill"},{"name" : "Roosevelt Park"},{"name" : "Hunan Bistro"},{"name" : "Mary Richardson Jones Park"},{"name" : "The Arena Club at Soldier Field"},{"name" : "Gold Star Family Memorial Park"},{"name" : "Paleteria Los Magos"},{"name" : "Soul Full Chicago"},{"name" : "Mandala Cafe"},{"name" : "Sunny & Fine's Breakfast Burritos"},{"name" : "Taqueria Ofrenda"},{"name" : "Holy Grounds at St. Paul Catholic Church"},{"name" : "Bernard's"},{"name" : "Chickpea"},{"name" : "Kitchen Keto"},{"name" : "Masala Pizza Company"},{"name" : "Starbucks Pickup"},{"name" : "Chicago French Press"},{"name" : "Talbott Cucina"},{"name" : "Mariposa"},{"name" : "The Paul and Gabriella Rosenbaum Garden"},{"name" : "Te'amo Boba Bar"},{"name" : "Bar on 4"},{"name" : "Bar 75"},{"name" : "Chicago Butter Cookies"},{"name" : "Movie Mondays at the Drake's Palm Court"},{"name" : "Protein Bar & Kitchen"},{"name" : "Rapt on the Mile"},{"name" : "Cochon 555"},{"name" : "Jane M. Byrne Plaza"},{"name" : "Field Museum Dig Site"},{"name" : "Chez Paul"},{"name" : "Ciccio"},{"name" : "The Bistro"},{"name" : "Peacock Lounge"},{"name" : "Edison's Corner"},{"name" : "Ineeka"},{"name" : "Doll's Kitchen And Catering"},{"name" : "Cuisines by

Sammy"},{"name" : "Chicago Artizen"},{"name" : "The Club house"},{"name" : "Zarsh Restaurant"},{"name" : "Liberation Kitchen"},{"name" : "Desi Chops"},{"name" : "Haute Diggity Dawgs Restaurant"},{"name" : "Livingston Park"},{"name" : "Ida's Artisan Ice Cream & Treats"},{"name" : "All Rise Brewing Company"},{"name" : "tea hot coffee"},{"name" : "FanDuel"},{"name" : "Farmer's Fridge"},{"name" : "Multilevel Streets of Chicago"},{"name" : "Surprise Oprah! A Farewell Spectacular"},{"name" : "Atkins Medicinal Plant Garden"},{"name" : "Uni Uni Tea - Lincoln Park"},{"name" : "The Green"},{"name" : "Fons Empanadas"},{"name" : "KALA Modern Greek"},{"name" : "Lakeview Smoke Shop"}]}}

Requirement -3:
Output:
{"data":{"Business" : [{"name" : "Giordano's - Jackson"},{"name" : "Luke's Italian Beef"}]}}

Requirement -4:
Output:
{"data":{"Business" : [{"name" : "Relish Chicago Hot Dogs"},{"name" : "The Hot Dog Box"},{"name" : "Ssong's Hotdog - Chicago"},{"name" : "Relish Chicago Hot Dogs"},{"name" : "The Northman Beer & Cider Garden Riverwalk"}]}}

Requirement -5:
Output:
{"data":{"Review" : [{"review" : "Prime & Provisions"},{"review" : "Ocean Prime"},{"review" : "Grill on 21"},{"review" : "Ocean Prime"},{"review" : "Joe's Seafood, Prime Steak & Stone Crab"},{"review" : "The Capital Grille"},{"review" : "Eddie V's Prime Seafood"},{"review" : "Prime & Provisions"},{"review" : "Steak 48"}]}}

Requirement -6:
Output:
{"data":{"Business" : [{"name" : "Crumbl Cookies - Lincoln Park"},{"name" : "Pretty Cool Ice Cream"},{"name" : "Terry's Toffee"},{"name" : "Crepe Twist"},{"name" : "Jeni's Splendid Ice Creams"}]}}

Requirement -7:
Output:
{"data":{"Review" : [{"review" : "Prime & Provisions"},{"review" : "Ocean Prime"},{"review" : "Grill on 21"},{"review" : "Ocean Prime"},{"review" : "Joe's Seafood, Prime Steak & Stone Crab"},{"review" : "The Capital Grille"},{"review" : "Eddie V's Prime Seafood"},{"review" : "Prime & Provisions"},{"review" : "Steak 48"},{"review" : "Remington's"},{"review" : "Grill on 21"},{"review" : "Morton's The Steakhouse"},{"review" : "Bazaar Meat by José Andrés"},{"review" : "The Grillroom Chophouse & Wine Bar"},{"review" : "The X Pot"},{"review" : "RL Restaurant"},{"review" : "Carson's"},{"review" : "Rosebud Steakhouse"},{"review" : "Torali"},{"review" : "Hugo's Frog Bar & Fish House"},{"review" : "Stetsons Modern Steak + Sushi"},{"review" : "Bistronomic"},{"review" : "Michael Jordan's Steak House"},{"review" : "Ocean Prime"},{"review" : "Joe's Seafood, Prime Steak & Stone Crab"},{"review" : "The Capital Grille"},{"review" : "Eddie V's Prime Seafood"},{"review" : "Prime & Provisions"},{"review" : "Steak 48"},{"review" : "Remington's"},{"review" : "Grill on 21"},{"review" : "Morton's The Steakhouse"},{"review" : "Bazaar Meat by José Andrés"},{"review" :

"The Grillroom Chophouse & Wine Bar"},{"review" : "The X Pot"},{"review" : "RL Restaurant"},{"review" : "Carson's"},{"review" : "Rosebud Steakhouse"},{"review" : "Torali"},{"review" : "Hugo's Frog Bar & Fish House"},{"review" : "Stetsons Modern Steak + Sushi"},{"review" : "Bistronomic"},{"review" : "Michael Jordan's Steak House"}]}}

The comparative analysis table:

Write a report for the Comparative Analysis of the Experimental Results

- Complete the table below by calculating the time it took to execute every requirement in every experiment
- The numbers provided below are for illustration purposes only

Requirement	Experiment #1	Experiment #2	Experiment #3	Experiment #4	Experiment #5
#1	4 mins 5 secs	6 mins 10 secs			
#2	14 milliseconds	18 milliseconds			
#3	48 milliseconds	54 milliseconds			
#4	24 miiliseconds	26 milliseconds			
#5	17 milliseconds	20 milliseconds			
#6	11 milliseconds	11 milliseconds			
#7	38 milliseconds	40 milliseconds			