PL/pgSql Functions

Databases 2022

Exercise 1

- From DVD rental database Table address have column address as text (you want to convert address to Longitude/latitude and create new two columns in address table).
- Steps:
 - Create Function to retrieve addresses that contains "11" and city_id between 400-600.
 - <u>Call the function</u> from <u>Python script</u> and use <u>geoPy</u> to generate longitude and latitude and Create Query to update Address table with new values.
 - Any area that geoPy not recognize put 0,0 for both values.
 - Submit you python code/output query for Address Table/SQL Query with screenshots for Database function. (prefer README.md file)

Exercise 2

- In Customer Table we have less than 600 customers and you don't have backend developer to do paging. Your job is to create function to retrieve customers order by address_id and it will take two parameters (start,end).
- For example: retrievecustomers(10,40):
 - 10 is customer number 10 in the query.
 - If start or end is negative number or more than 600 show an error message describe the error.
- Submit SQL query to create the function with example.

Useful resources

- https://www.linuxtopia.org/online_books/database_guides/
 Practical_PostgreSQL_database/PostgreSQL_x20238_002.htm
- https://www.postgresqltutorial.com/plpgsql-loop-statements/
- https://www.educba.com/postgresql-for-loop/?source=leftnav
- https://www.postgresqltutorial.com/plpgsql-for-loop/
- https://kb.objectrocket.com/postgresql/postgres-if-statement1351

See you next lab:)