7_4 LAB

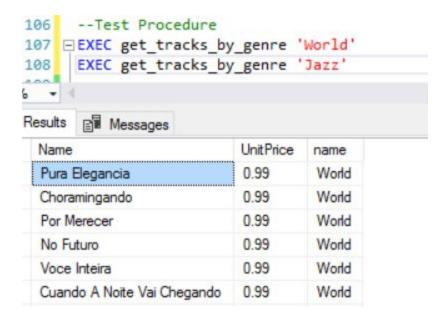
Time: 2 Hours

- 1. Create a User Define Function to get the total amount of money a customer has spent on rentals. The user define function will be called customer_spend and will take a customer_id as input. It will return the sum of all payments in the payments table for that customer ID.
- 2. Create a stored procedure that will update a customer's last name. The procedure will be called update_customer_lastname and will take a customer_id and new lastname as input. Create the procedure, execute it, and then check the customer table to verify the update worked.
- 3. Create a stored procedure that gets all films by their category. The procedure will be called get_films_by_category and it will take text as input such as 'action' or 'drama'. It should return the film title, description, release year, length, rental rate, rental duration, and the category name of all films in that category.



4. Let's switch it up and write some procedures for the CHINOOK database, to get a feel for using a different set of data. Using CHINOOK, create a stored procedure that gets the sum total of all invoices by customer. The procedure should be called get_invoice_totals_by_customer and take in a customerID from the Chinook database as input. It should return the customer name and total of all of their invoices. Test the procedure by checking the invoice amounts for customers with ID 2 and again with ID 26

5. Get a procedure called get_tracks_by_genre. The procedure should accept a string of text as input for the genre name, and return a list of song titles, their price, and the name of the genre.



- 6. Alter the stored procedure get_tracks_by_genre to return the tracks in alphabetical order, A-Z
- 7. In the database of your choice, create your own stored procedure. Think about the procedure you want to create by answering these questions.
 - What data do I want my procedure to return?
 - What does my procedure need to accept as input?
 - What variables and parameters does my procedure need to function?
 - Should my procedure make any updates to the database?