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.

```
EXEC get_films_by_category 'Action'
```

100 %

Results | Messages

	title	description	release_year	length	rental_rate	rental_duration	name
1	easy gladiator	A Fateful Story of a Monkey And a Girl who must Over...	2006	148	4.99	5	Action
2	amadeus holy	A Emotional Display of a Pioneer And a Technical Writ...	2006	113	0.99	6	Action
3	american circus	A Insightful Drama of a Girl And a Astronaut who must ...	2006	129	4.99	3	Action
4	antitrust tomatoes	A Fateful Yarn of a Womanizer And a Feminist who mu...	2006	168	2.99	5	Action
5	entrapment satisfaction	A Thoughtful Panorama of a Hunter And a Teacher wh...	2006	176	0.99	5	Action
6	excitement eve	A Brilliant Documentary of a Monkey And a Car who m...	2006	51	0.99	3	Action
7	ark ridgemont	A Beautiful Yarn of a Pioneer And a Monkey who must ...	2006	68	0.99	6	Action

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.

```
106  --Test Procedure
107  EXEC get_tracks_by_genre 'World'
108  EXEC get_tracks_by_genre 'Jazz'
```

Results | Messages

Name	UnitPrice	name
Pura Elegancia	0.99	World
Choramingando	0.99	World
Por Merecer	0.99	World
No Futuro	0.99	World
Voce Inteira	0.99	World
Cuando A Noite Vai Chegando	0.99	World

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?