

# PostgreSQL: Data Operations

## SELECT, UPDATE, DELETE

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## **In Last Module**

- **Restoring sample database**
- **Create a database table schema with pgAdmin III**
- **Export data from database tables**

# **In This Module**

- **Basic Structure of SELECT statement**
- **Updating/Inserting Database Tables**
- **Deleting Database Tables**

# Scenario Setup

- Two Database Administrators
- Rahul – Sr. Database Administrator
- Mike – Jr. Database Administrator



# Scenario 1

## Task:

- Rahul asks Mike to retrieve following various data from actor table of DVD Rental Database

Subtask 1: Retrieve all the actor with actor\_id lesser than 11

Subtask 2: Order data by first\_name

Subtask 3: Order data by last\_name in decending order

## Scenario 2

### Task:

- Rahul asks Mike to list unique first name along with count of occurrence from actor table of DVD Rental Database

Subtask 1: Count first name of actor where actor\_id is between 100 and 200

Subtask 2: List all the first name which occurs more than 1 time

## Scenario 3

### Task:

- Rahul asks Mike to update first name of an actor and insert new data into table

Subtask 1: Change name of the actor from *Cuba* to *Jacob*

Subtask 2: Insert a new row into table with actor name *Robert Johnson*

## Scenario 4

### Task:

- Rahul asks Mike to delete rows with specific condition from table actor

Subtask 1: Delete all rows where first name of actor is *Robert*



# Summary

- **Basic structure of SELECT statement**
  - SELECT columnname
  - FROM tablename
  - WHERE condition
  - GROUP BY grouping-columns
  - HAVING grouping-condition
  - ORDER BY columnname
- **We can use pgAdmin III to generate various SELECT, INSERT, UPDATE and DELETE script**



