Lab 10
PL/SQL

CSE 4308

DATABASE MANAGEMENT SYSTEMS LAB

NOVEMBER 5, 2023

1 Lab Task

Write PL/SQL statements to perform the following tasks:

1. **Warm-up**:
   (a) Print your name.
   (b) Take your student ID as input and print its length.
   (c) Take two numbers as input and print their product.
   (d) Print the current system time in 12-hour format.
   (e) Take a number as input and print whether it is a whole number or a fraction.
   (f) Write a procedure that takes a number as an argument and prints whether it is a composite number or not.
2. Consider the following schema for a movie database:

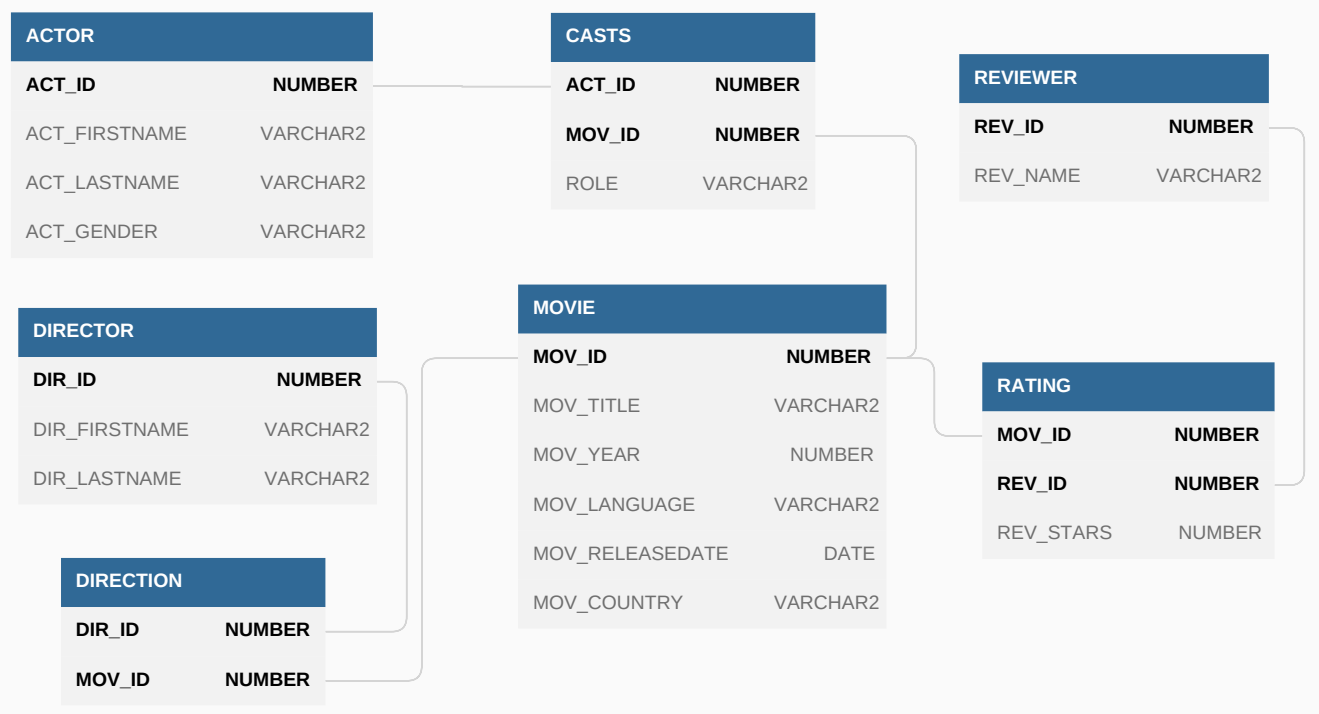

Figure 1: ER Diagram for a movie database

Execute the provided "`movie.sql`" file and answer the following questions:

(a) Write a procedure to find the N top-rated movies and their details (Top-rated means top highest average rating). The procedure will take N as input and print the details up to N movies. If N is greater than the number of movies, then it will print an error message.
(b) Write a function to find the movie status ("Solo", "Ensemble"). If the total number of actors/actresses in a movie is 1, then the status should be "Solo", else it should be "Ensemble". The function will take the title of the movie as input as input and return the status.
(c) Write a procedure to find the possible nominees for the Oscars. A director is eligible for an Oscar if at least one of their movies has an average rating of at least 7. Also, the movie should be reviewed by more than 10 reviewers.
(d) Write a function that will take the title of the movie as input and find the movie category based on Table 1.

Table 1: Movie Category Table for Question 2(d).

Movie Category	**Release Year**	**Average Rating**
Fantastic Fifties	1950 - 1959	>6.5
Sweet Sixties	1960 - 1969	>6.7
Super Seventies	1970 - 1979	>6.9
Ecstatic Eighties	1980 - 1989	>7.1
Neat Nineties	1990 - 1999	>7.3
Garbage	All other movies	

Write anonymous blocks to illustrate your programs, if needed.