

COSC265 Lab 2: Retrievals in SQL and Relational Algebra

Aim: At the end of this lab you should understand the basic SQL retrieval statement and its use in the context of Oracle RDBMS.

Required Preparation: Before coming to the lab, please read the queries and prepare your solutions on paper. Make sure you understand the MOVIES and REGISTRATION databases fully.

Simple queries on the MOVIES database

1. Find all types of movies in the database.
2. Find all the information about the star whose number is 4.
3. Find the name, year and city of birth of the star whose number is 50.
4. List the names of all stars born in or after 1950.
5. List the numbers and titles of all movies made between 1965 and 1975.
6. List the numbers and titles of all movies whose type is fantasy or romance.
7. Find the name, year and city of birth for every star born in 1920s who is still living.
8. Produce a list of numbers of all stars that acted in movies number 85 to 91.
9. For all directors who are deceased, list their names and how long they lived.
10. Find the total number of awards won by comedies.
11. List the titles of all movies and the names of their directors.
12. Find the name of the star who played Vronsky in the movie entitled 'Anna Karenina'.

The queries for the REGISTRATION database

1. Find the different types of vehicle in the database.
2. Get plate numbers, makes and models of all cars imported from Japan.
3. Produce a list of all vehicles, showing only the plate numbers and the year of manufacture. Order the tuples by the year.
4. List the names of all owners. Sort the output by last name descending and by first name ascending.
5. For each car, show the plates number and the name of the current owner.