

## SQL Subqueries

IN THIS ASSIGNMENT, you will practice writing SQL subqueries.

### 1 Code

Write SQL queries that return the result set described.

- Use subqueries where possible.
  - Partial output from the reference implementation of each query appears starting on page 2.
1. (3 points) The title and category of all films having a category name that starts with C.
    - Use a subquery with an **IN** expression.
    - Order results by film title.
    - Do not use explicit category ID's.
    - See Table 1.
  2. (3 points) The customer ID and email address of all customers who have made at least one payment in excess of 2.5 times the average amount of all payments.
    - Don't list the same customer more than once.
    - Order by email address.
    - See Table 2.
  3. (4 points) The first name, last name, and film count of actors who are in more films **Kirsten Paltrow**.
    - Order results by descending film count, then ascending by last name and then first name.
    - Do not use Kirsten Paltrow's **actor\_id** directly.
    - Use a subquery in the **HAVING** clause.
    - See Table 3.

### 2 Submit

1. Create a **.sql** source file containing your queries.
2. Prefix each query with a comment indicating the question number.
3. Submit your source file to the course web site.

title	name
Airplane Sierra	Comedy
Alice Fantasia	Classics
Amistad Midsummer	Comedy
Anthem Luke	Comedy
Arizona Bang	Classics
Attraction Newton	Classics
Backlash Undefeated	Children
Bear Graceland	Children

Table 1: Partial results for question 1

customer_id	email
367	adam.gooch@sakilacustomer.org
567	alfredo.mcadams@sakilacustomer.org
196	alma.austin@sakilacustomer.org
333	andrew.purdy@sakilacustomer.org
29	angela.hernandez@sakilacustomer.org
136	anita.morales@sakilacustomer.org
33	anna.hill@sakilacustomer.org
364	benjamin.varney@sakilacustomer.org

Table 2: Partial output for question 2

first_name	last_name	film_count
Susan	Davis	54
Gina	Degeneres	42
Walter	Torn	41
Mary	Keitel	40
Matthew	Carrey	39
Sandra	Kilmer	37
Scarlett	Damon	36
Vivien	Basinger	35
Henry	Berry	35

Table 3: Partial output for question 3