1. Who is the customer who spent the most on rental movies? Return his/her customer id, first name and the amount spent.

The Syntax Used

select c.customer\_id, c.first\_name, sum(amount) from payment p join customer c on c.customer\_id=p.customer\_id group by customer\_id order by amount desc limit 1;

The Results

|  |  |  |
| --- | --- | --- |
| customer\_id | first\_name | sum(amount) |
| 196 | ALMA | 151.65 |

1. Give an interesting query of your own that is not already in the assignment. The query should involve at least two joins, HAVING clause and aggregation operation. Give the English explana-tion and the answer.

Query : Return film titles from Canada sorted by amount ( Costly films in Canada)

select title, sum(amount), country from payment p join (inventory i, staff s, film f, address a, city t, country y) on

(i.film\_id = f.film\_id and i.store\_id = s.store\_id and p.staff\_id = s.staff\_id and s.address\_id=a.address\_id and a.city\_id=t.city\_id and t.country\_id=y.country\_id)

group by title having country = ‘canada’ order by sum(amount) DESC;

In earlier assignments we have found popular countries wherein Canada was most popular country.

Hence here I tried to find the costlier movies in the Canada assuming the amount in payment table is the cost for the movies.

In order to get this I identified tables having ‘film titles’, ‘amounts’ and ‘ countries’ which are ‘film’, ‘payment’ and ‘country’ respectively.

To join these tables identified the inter dependencies and common columns.

Since we need the cost of each film the results were grouped by ‘title’ and all the payments were summed as sum(amount) .

To find the costlier movie results were sorted with sum(amount) in descending order.

Since we have condition of movies in Canada having clause is used .