**Problem Statement**:

21st Century Jackle wants to analyze the data on movies, using different aggregate functions. Implement the functionalities mentioned in below Use case Description using HQL Aggregate functions.

Use Case Description:

|  |  |  |
| --- | --- | --- |
| **NO.** | **USE CASE** | **DESCRIPTION** |
| 1 | Find Maximum Revenue | Display the highest revenue generated in the specified language |
| 2 | Find Minimum Revenue | Display the lowest revenue generated in the specified language |
| 3 | Find Sum of Revenue | Display the sum of revenues for all movies in the specified language |
| 4 | Find Average of Revenue | Display the average revenue for all movies in the specified language |
| 5 | Find the number of movies | Display the number of movies in the specified language |

Note:

Use the sample data provided below to test the functionalities.

Modify hibernate.cfg.xml to provide your database credentials

HQL\_Director

|  |  |  |
| --- | --- | --- |
| **DIRECTOR ID** | **DIRECTOR NAME** | **BORN IN** |
| D101 | Chris Columbus | 1958 |
| D102 | Patrick Read Johnson | 1962 |
| D103 | Aamir Khan | 1965 |
| D104 | R. Balki | NULL |

HQL\_Movie

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MOVIE ID** | **MOVIE NAME** | **LANGUAGE** | **RELEASED IN** | **REVENUE IN DOLLARS** | **DIRECTOR ID** |
| M1001 | Home Alone | English | 1990 | 476700000 | D101 |
| M1002 | Home Alone | English | 1992 | 358900000 | D101 |
| M1003 | Baby's Day Out | English | 1994 | 16800000 | D102 |
| M1004 | Taare Zameen Par | Hindi | 2007 | 13000000 | D103 |
| M1005 | Paa | Hindi | 2009 | 4700000 | D104 |

Summary of this exercise:

Learned the usage of Aggregate Functions in HQL.

**Problem Statement**:

21st Century Jackle wants to generate some reports using the data on movies, using different HQL constructs. Implement the functionalities mentioned in below Use case description using constructs.

Use Case Description:

|  |  |  |
| --- | --- | --- |
| **NO.** | **USE CASE** | **DESCRIPTION** |
| 1 | Get Movie Count For Each language | Display the language and number of movies in that language in descending order of movieCount. Display if only the language contains at-least 2 movies. |

Note:

Use the sample data provided below to test the functionalities.

Modify hibernate.cfg.xml to provide your database credentials

HQL\_Director

|  |  |  |
| --- | --- | --- |
| **DIRECTOR ID** | **DIRECTOR NAME** | **BORN IN** |
| D101 | Chris Columbus | 1958 |
| D102 | Patrick Read Johnson | 1962 |
| D103 | Aamir Khan | 1965 |
| D104 | R. Balki | NULL |

HQL\_Movie

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MOVIE ID** | **MOVIE NAME** | **LANGUAGE** | **RELEASED IN** | **REVENUE IN DOLLARS** | **DIRECTOR ID** |
| M1001 | Home Alone | English | 1990 | 476700000 | D101 |
| M1001 | Home Alone | English | 1992 | 358900000 | D101 |
| M1001 | Baby's Day Out | English | 1994 | 16800000 | D102 |
| M1001 | Taare Zameen Par | Hindi | 2007 | 13000000 | D103 |
| M1001 | Paa | Hindi | 2009 | 4700000 | D104 |
| M1001 | Ardaas | Punjabi | 2016 | 4500000 | D103 |

Summary of this exercise:

Using HQL Constructs in the query.