

Instructions:

- Note that the artifacts that you create in this project will be re-used and refined in subsequent assignments in this course.
 - **Note:** You are responsible for reviewing, complete testing, and final submission.
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Background:

In this project, you will continue to develop the CanadaCensusDB application. You will ensure that your Console application includes all the tables in the CanadaCensusDB schema. In addition, you will utilize JPA Specification with Hibernate Implementation to persist all Entities.

Questions:

1. Create All Entity Classes from the Database Schema.
2. Use Entity Manager's find Method to Display information of geographic Area with ID =10.
3. Use Entity Manager's createQuery Method to Display Geographic Area information for the Level 2.
4. Create a NamedQuery (findAllIncome) in TotalIncome Entity Class to retrieve information about the Total Income. Display 10 Records only.
5. Use Entity Manager's createQuery Method to Display total number of records with 2016 Canada Census.
 - a. One couple census family without other persons in the household
 - b. 2 or more members in the household.
 - c. At least 1 earner in the household.
 - d. Total income between \$80,000 and \$89,999
6. Criteria Query:
 - a. Use Multiselect to get Code, Level and Name from Geographic Area Table. Display 10 Records only.
 - b. Display Top 20 combined Age information from Age Table order by Desc.
 - c. Use Where Clause to Display information for Geographic Area named 'Peterborough'
 - d. Display Total Income Description between id 10 to 20.
 - e. Use Group by Clause to Display Geographic Area Information group by Level.

Add Comments to your code.

Submission:

1. Be sure to save all changes.
2. Zip the ENTIRE project folder with your solution and upload to the Assignment 1 folder to the eConestoga Portal.

Note: You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.