**Assignment 1 -** François d’Entremont  
**GISY5003/3082/Spatial Database Management  
Word document containing the answers to the queries.**

**Working with areas**1. Listing the census divisions with their corresponding areas in hectares.

|  |  |  |
| --- | --- | --- |
| census\_division | census\_division\_id | area\_hectares |
| "Kings" | 1101 | 177756.69976154118 |
| "Queens" | 1102 | 216908.95559545144 |
| "Prince" | 1103 | 207634.64353699508 |
| "Shelburne" | 1201 | 274611.2908871185 |
| "Yarmouth" | 1202 | 245118.01039321756 |
| "Digby" | 1203 | 280126.6656552439 |
| "Queens" | 1204 | 289053.173387534 |
| "Annapolis" | 1205 | 356036.96686140704 |
| "Lunenburg" | 1206 | 323958.91859266226 |
| "Kings" | 1207 | 228790.80788980142 |
| "Hants" | 1208 | 328345.30381624086 |
| "Halifax" | 1209 | 618094.6594310248 |
| "Colchester" | 1210 | 378094.93663454824 |
| "Cumberland" | 1211 | 445254.33968991396 |
| "Pictou" | 1212 | 298963.4595132146 |
| "Guysborough" | 1213 | 437977.1479845255 |
| "Antigonish" | 1214 | 151344.22062898127 |
| "Inverness" | 1215 | 401408.7488643163 |
| "Richmond" | 1216 | 134351.34940234924 |
| "Cape Breton" | 1217 | 266220.54228449834 |
| "Victoria" | 1218 | 295698.03252668964 |
| "Saint John" | 1301 | 161117.63585820267 |
| "Charlotte" | 1302 | 365248.12195939897 |
| "Restigouche" | 1314 | 876352.1653414798 |
| "Gloucester" | 1315 | 485126.51857341756 |
| "Sunbury" | 1303 | 282370.66777791 |
| "Queens" | 1304 | 409357.4260267744 |
| "Kings" | 1305 | 378820.8458869545 |
| "Albert" | 1306 | 189282.8354164145 |
| "Westmorland" | 1307 | 382351.9144940251 |
| "Kent" | 1308 | 472052.55560742266 |
| "Northumberland" | 1309 | 1326192.7803467046 |
| "York" | 1310 | 860121.4707481716 |
| "Carleton" | 1311 | 342779.47919279925 |
| "Victoria" | 1312 | 567345.4815203097 |
| "Madawaska" | 1313 | 354015.5635096368 |

2. Query for largest census division.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Northumberland | 1326192.7803467046 |

3. Query for smallest census division.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Richmond | 134351.34940234924 |

4. Query for largest agricultural ecumene division.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Cumberland | 331257.25032267463 |

5. Query for smallest agricultural ecumene division.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Victoria | 2556.2573857289317 |

6. Query for the census division with largest proportion of agricultural ecumene to census division in percentage.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Prince | 96.58709776983623 |

7. Query for the census division with smallest proportion of agricultural ecumene to census division in percentage.

|  |  |
| --- | --- |
| **census\_division** | **area\_hectares** |
| Queens | 0.8012522503063875 |

Crops  
1. Query for total area of each crop grown in the Maritimes in 2011.

|  |  |
| --- | --- |
| **crop\_type** | **total\_area\_2011** |
| "Spring wheat (excluding durum)" | 3810 |
| "Buckwheat" | 129 |
| "Alfalfa and alfalfa mixtures" | 39524 |
| "Potatoes" | 53186 |
| "All other tame hay and fodder crops" | 146871 |
| "Total corn" | 17866 |
| "Fall rye" | 226 |
| "Oats" | 14450 |
| "Soybeans" | 25147 |
| "Corn for grain" | 6453 |
| "Mixed grains" | 2699 |
| "Barley" | 34859 |
| "Total wheat" | 9302 |
| "Corn for silage" | 4905 |
| "Canola (rapeseed)" | 1725 |
| "Total rye" | 1151 |
| "Winter wheat" | 2840 |
| "Other field crops" | 2 |

2. Query for largest crop grown, by area, in the Maritimes in 2011.

|  |  |
| --- | --- |
| **crop\_type** | **total\_area\_2011** |
| All other tame hay and fodder crops | 146871 |

3. Query for largest crop grown, by area, in the Maritimes in 2016

|  |  |
| --- | --- |
| **crop\_type** | **total\_area\_2016** |
| All other tame hay and fodder crops | 125554 |

Crop Areas

1. Query for largest area of potatoes in 2011.

|  |  |  |
| --- | --- | --- |
| **census\_division** | **crop\_type** | **total\_potatoes\_2011** |
| Prince | Potatoes | 19383 |

2. Query for largest area of potatoes in 2016.

|  |  |  |
| --- | --- | --- |
| **census\_division** | **crop\_type** | **total\_potatoes\_2016** |
| Prince | Potatoes | 20283 |

3. Query for the division with the largest area, proportionally, of total corn in 2011.

|  |  |
| --- | --- |
| **census\_division** | **total\_corn\_proportion** |
| Kings | 0.020215413898975874 |