**Assignment 3 – Introduction to AWS**

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1. **A Simple File Upload to Amazon S3:**

In this task, I have uploaded the 2 given files to my bucket in Amazon S3 using a simple java program, and calculated the time taken to upload those 2 files.

File 1: hd2013.csv (3.67 MB)

File 2: us-pci.xls (168 kb)

|  |  |  |  |
| --- | --- | --- | --- |
| **Instance** | **No.of Files** | **Status** | **Time Taken (mS)** |
| 1st Instance | 2 | Success | 11507 |
| 2nd Instance | 2 | Success | 12926 |
| 3rd Instance | 2 | Success | 13238 |

1. **Import data from XLS to AWS RDB:**

In this task, I have uploaded a set of data (51 tuples) from an XLS file to Amazon RDS MySQL database. Given below are the calculated time, and result screenshots are attached with this folder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Instance** | **No.of Tuples** | **Status** | **Time Taken (mS)** |
| 1st Instance | 51 | Success | 96150 |
| 2nd Instance | 51 | Success | 82128 |
| 3rd Instance | 51 | Success | 80932 |

1. **Import data from CSV to AWS RDB:**

In this task, I have uploaded a set of data (7769 tuples) from a CSV file to Amazon RDS MySQL database. Given below are the calculated time, and result screenshots are attached with this folder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Instance** | **No.of Tuples** | **Status** | **Time Taken (mS)** |
| 1st Instance | 7769 | Success | 856862 |
| 2nd Instance | 7769 | Success | 636402 |

1. **State Income – Education Relationship:**

In this task, I have executed a set of MySQL query to find the average revenue of each state and compared it with the total number of institutions on that state, in order to determine if the higher number of educational institutes contribute to a high revenue or not. I have listed the year-by-year revenue report and total average revenue report separately, and given below are the time taken to run this relationship calculation.

|  |  |  |  |
| --- | --- | --- | --- |
| **Instance** | **Type** | **Status** | **Time Taken (mS)** |
| 1st Instance | Average | Success | 1030 |
| 1st Instance | Year-by-Year | Success | 1187 |
| 2nd Instance | Average | Success | 1012 |
| 2nd Instance | Year-by-Year | Success | 1197 |
| 3rd Instance | Average | Success | 1145 |
| 3rd Instance | Year-by-Year | Success | 1350 |

**Analysis Conclusion:**

From the above calculation, It is concluded that the educational institution incomes are not the only major income which contributes to the state financial revenues. For example, from the given data it is evident that some states with lesser number of universities, earn more revenues than states with higher number of universities, which implies that there are other source of incomes too for the state’s major revenue contribution.

**References:**

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