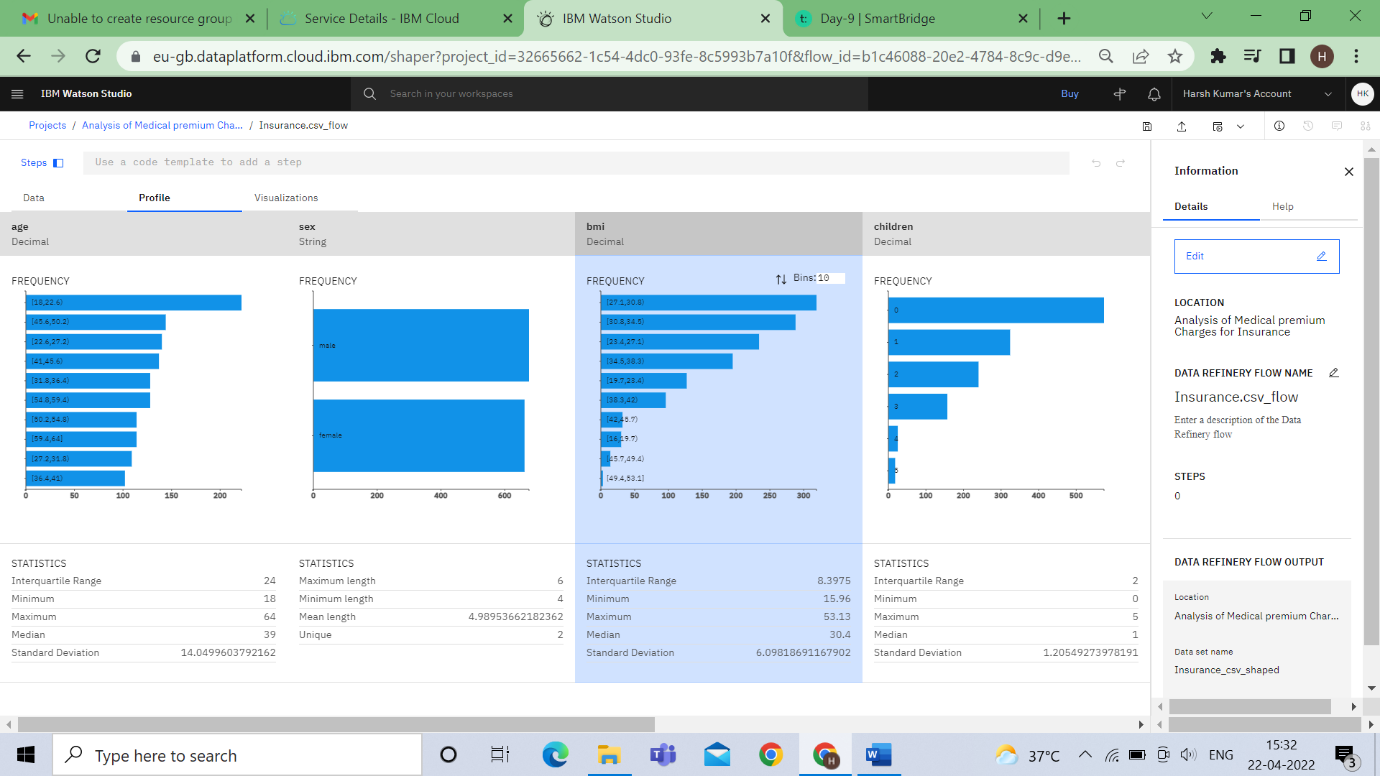
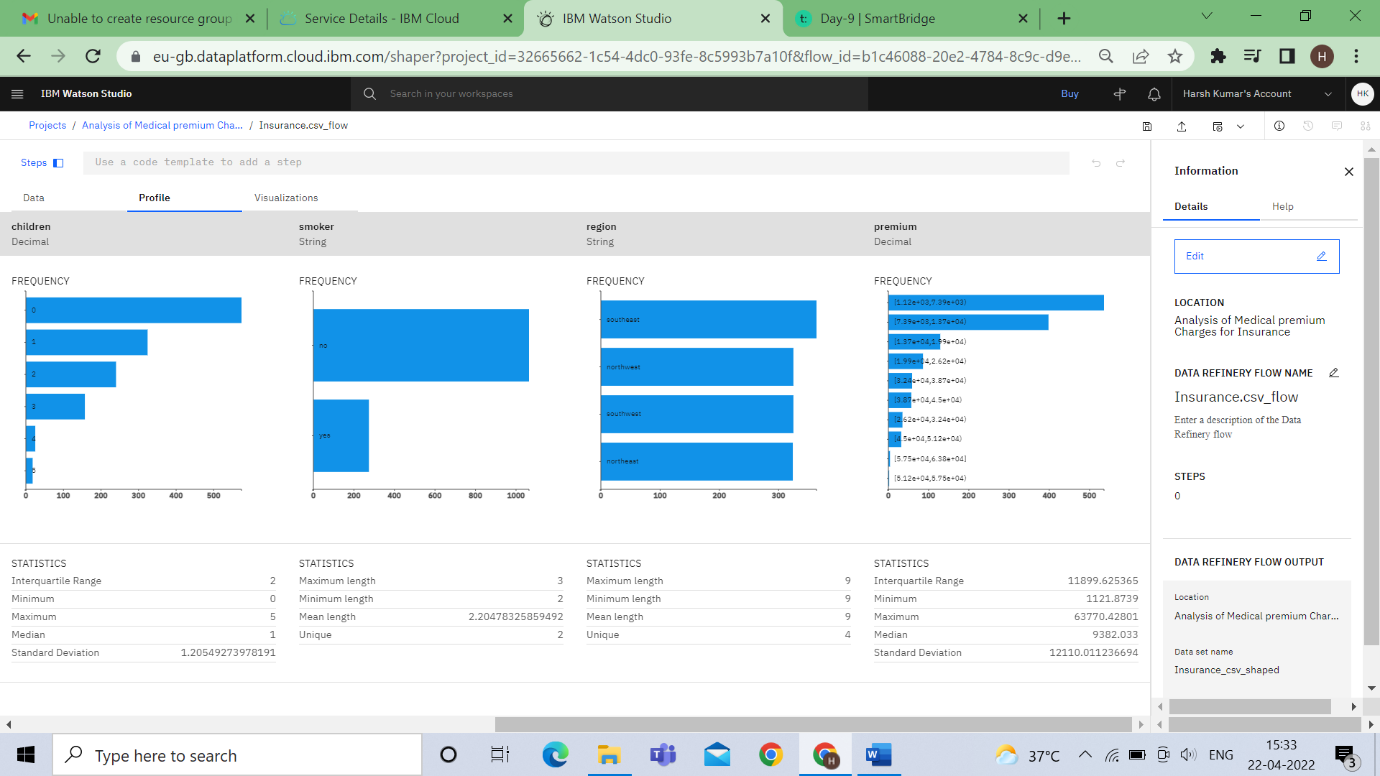
***Data Analytics***

**Case Study: Analysis of Medical Premium charges for insurers**

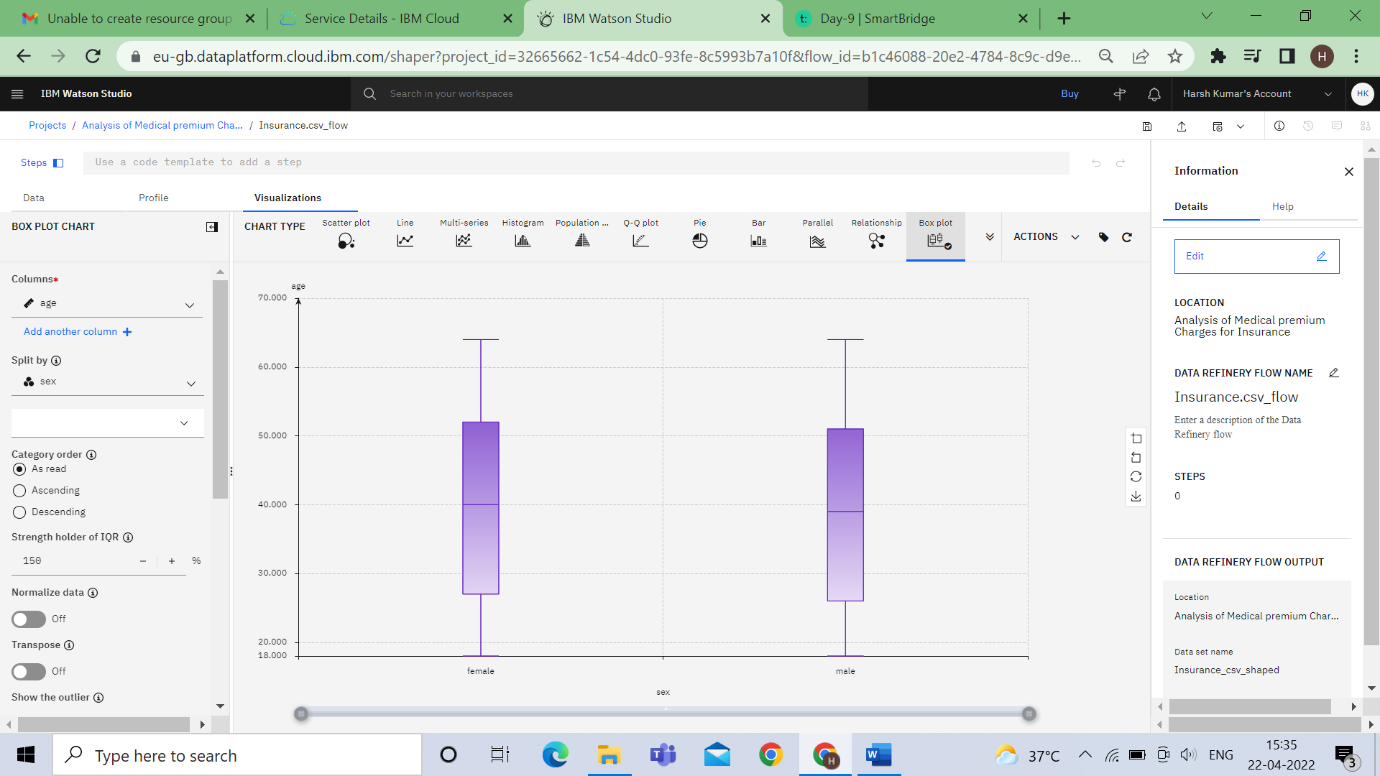
**Data Refinary**

* Descriptive analytics of data





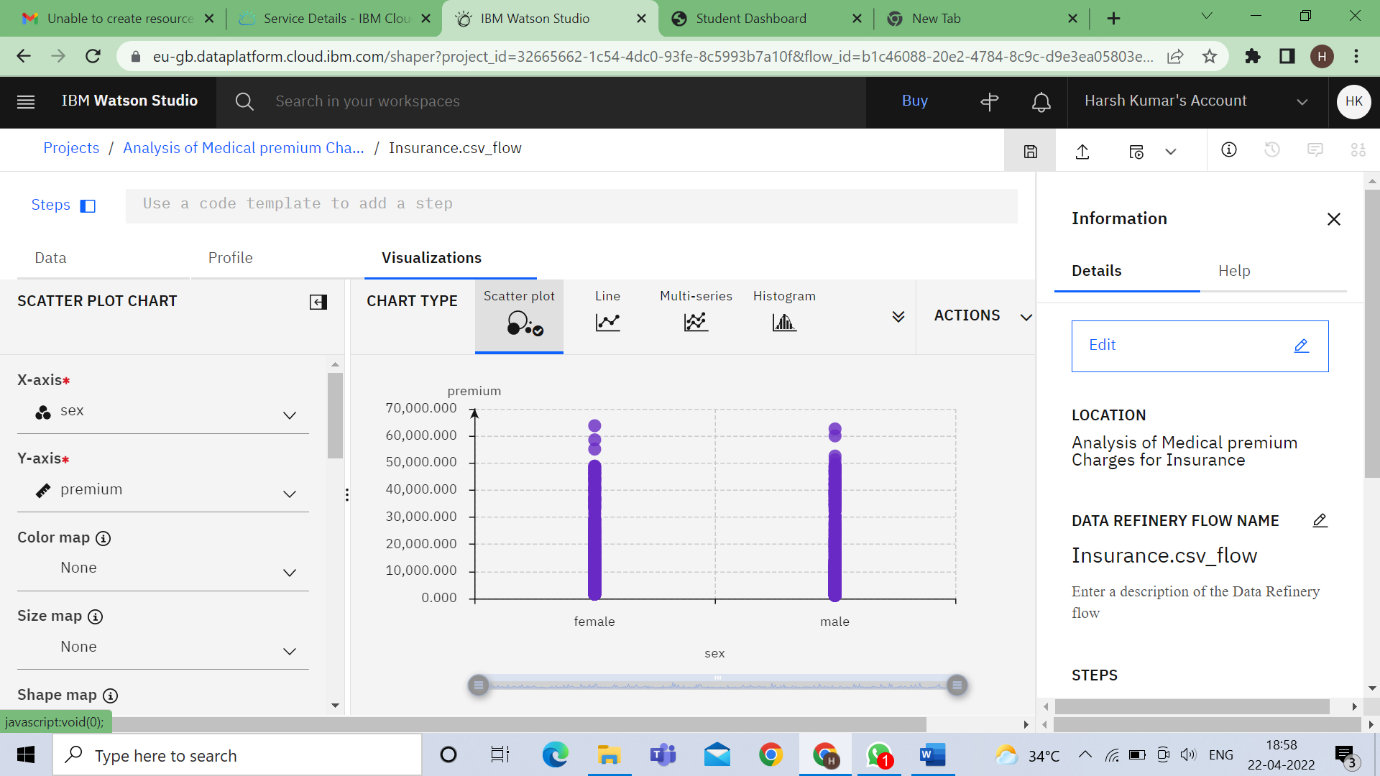
* Exploratory Analytics



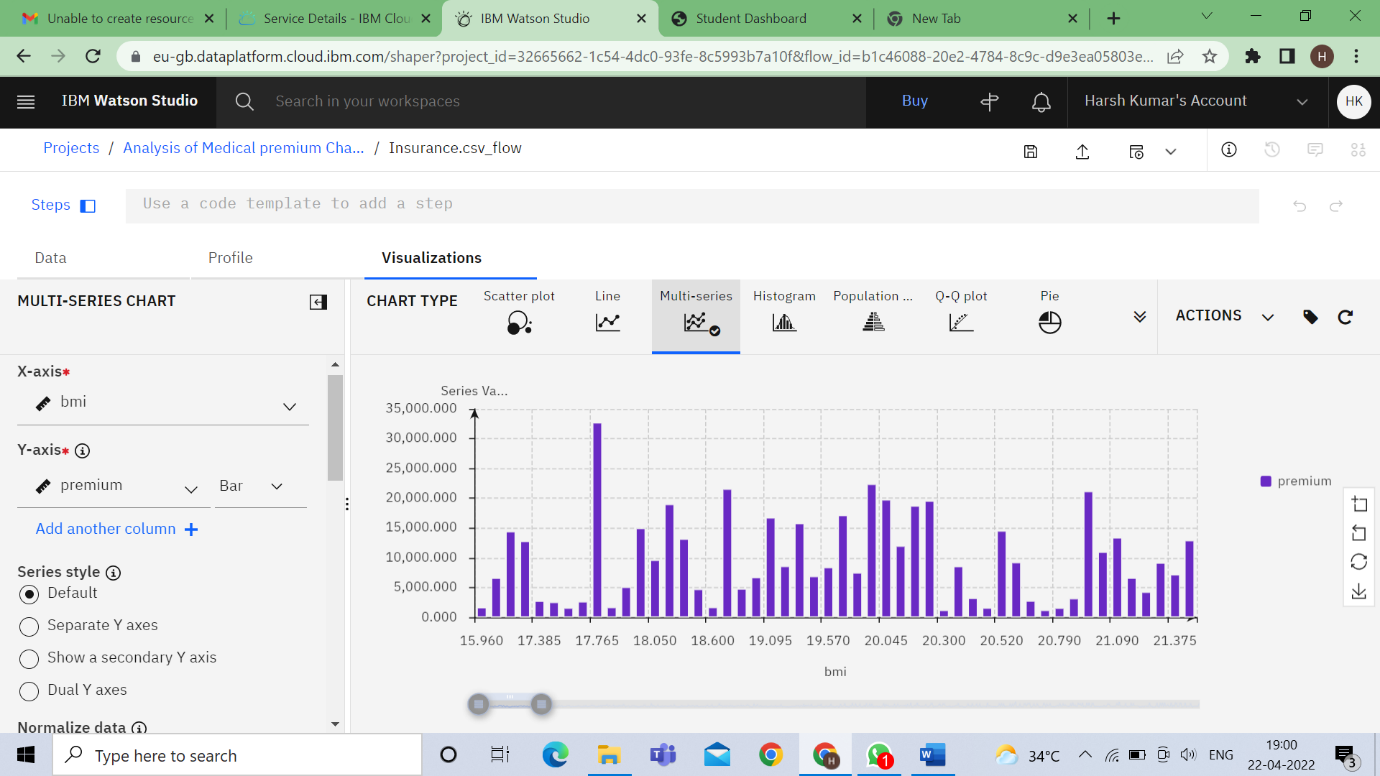
Columns-age ,split by-sex



Columns-premium ,split by-resion

****

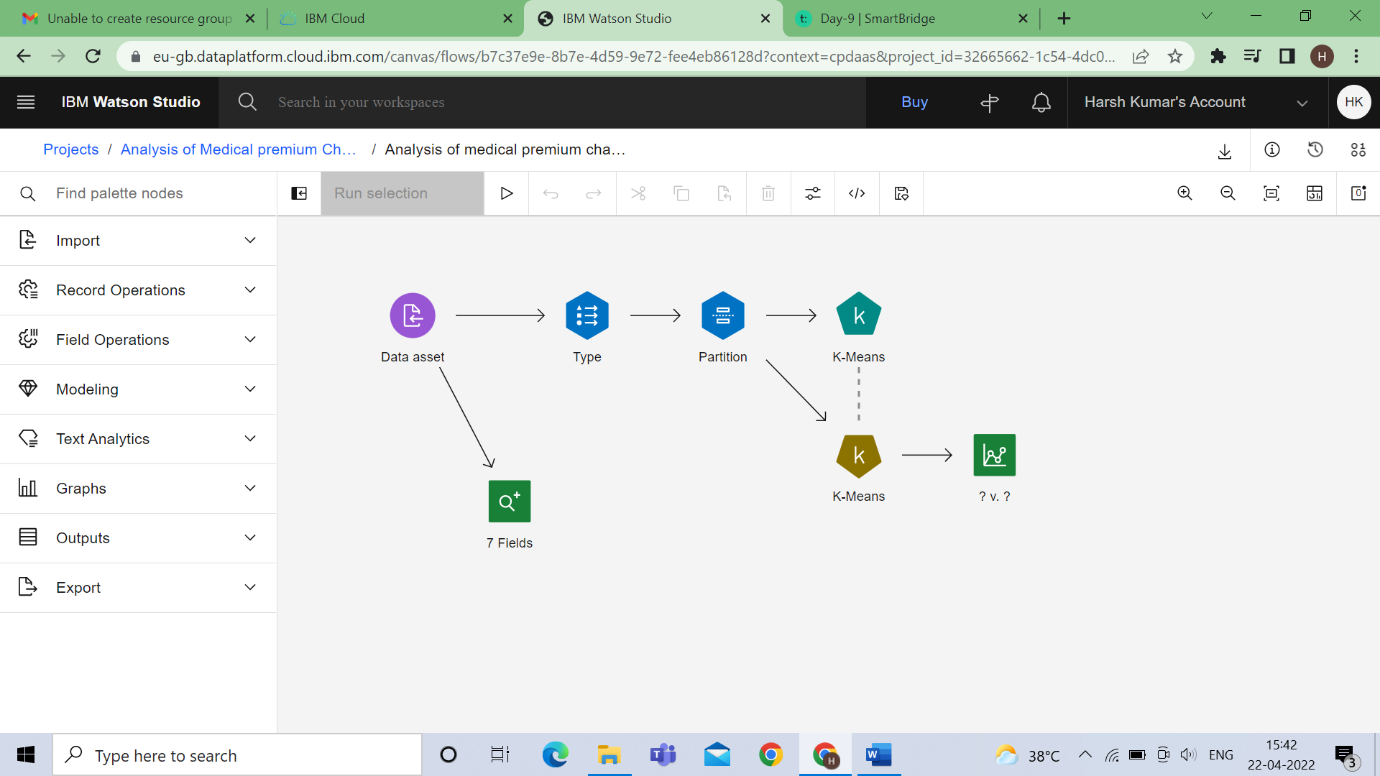
**X-axis = sex , Y-axis = Premium**

****

**X-axis = bmi , Y-axis = Premium**

**2.SPSS Modeler**

* **Model**

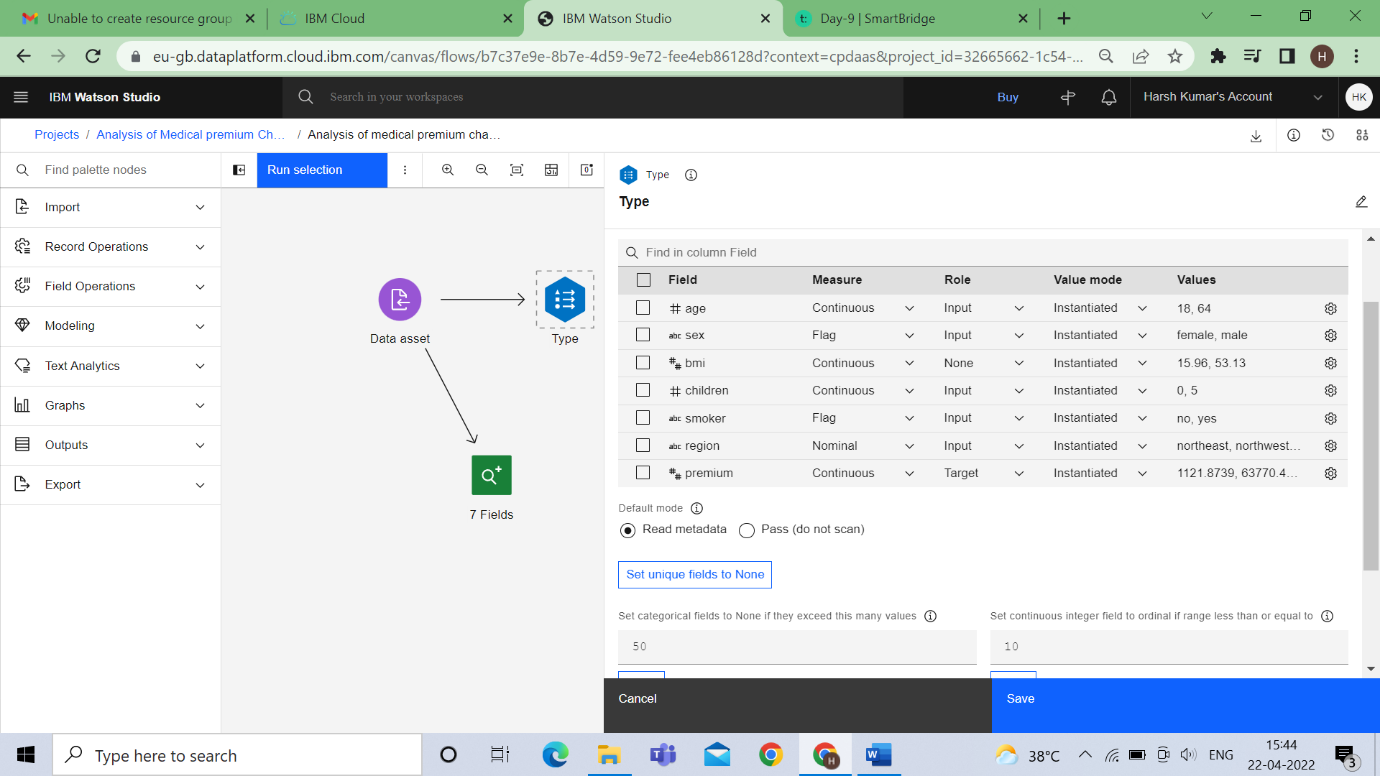
****

* **Type node**

**BMI as none**

**premium as Output or target**

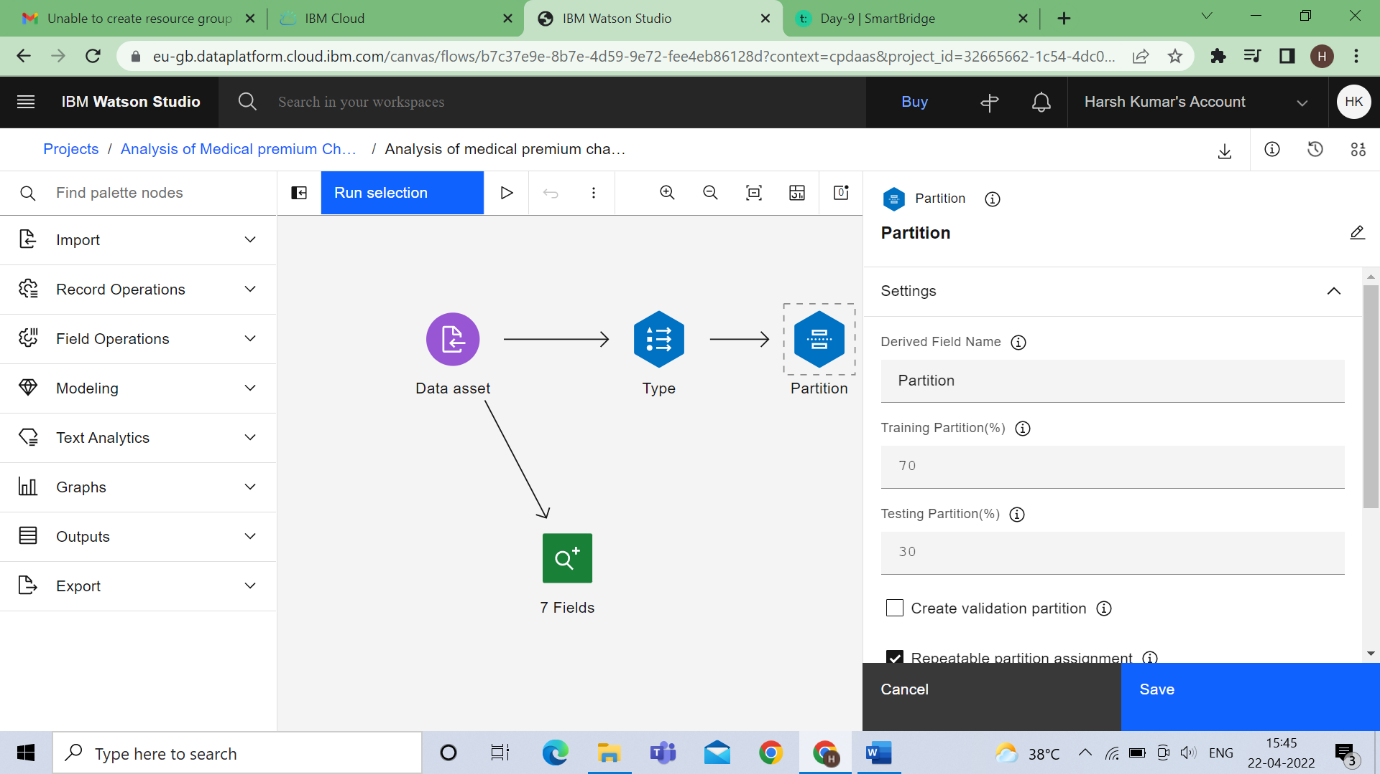
**other as input**

****

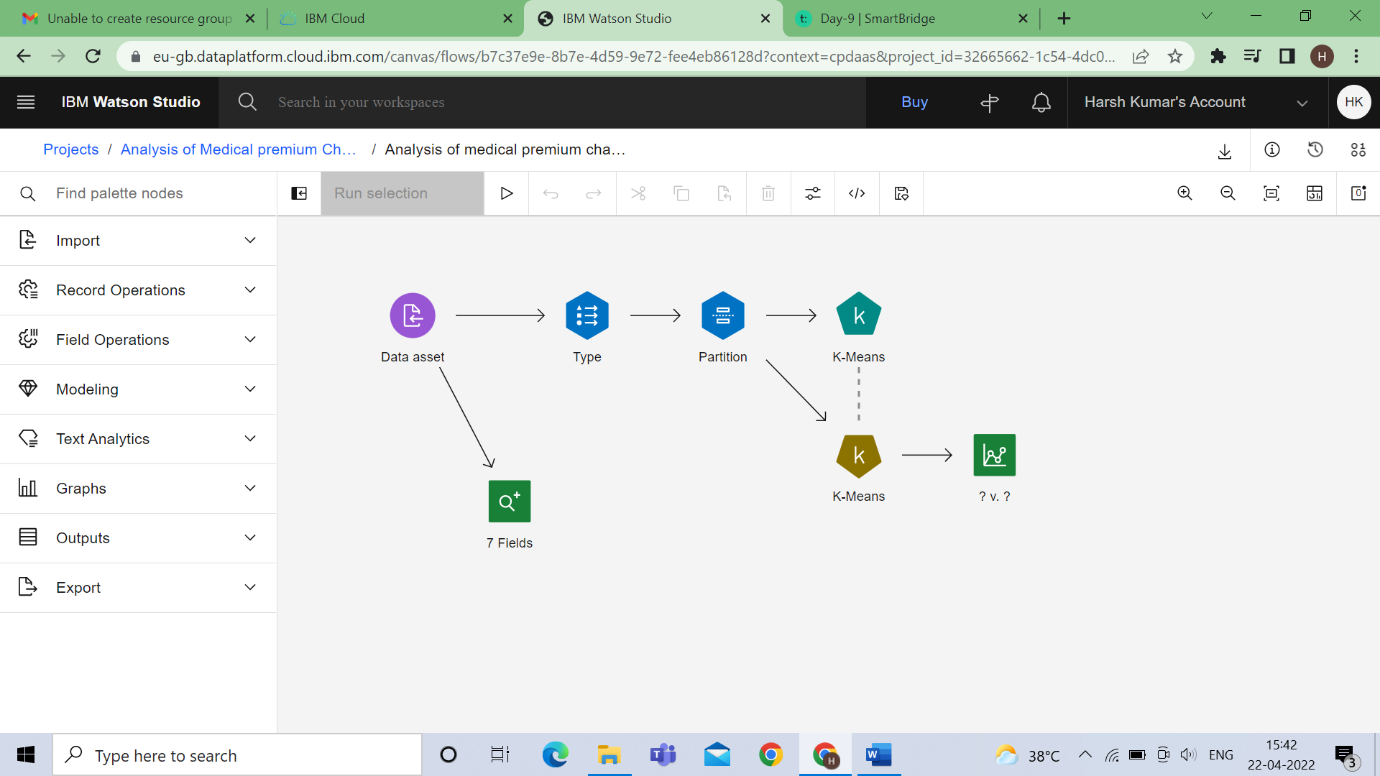
* **Partition node**

**Training – 70%**

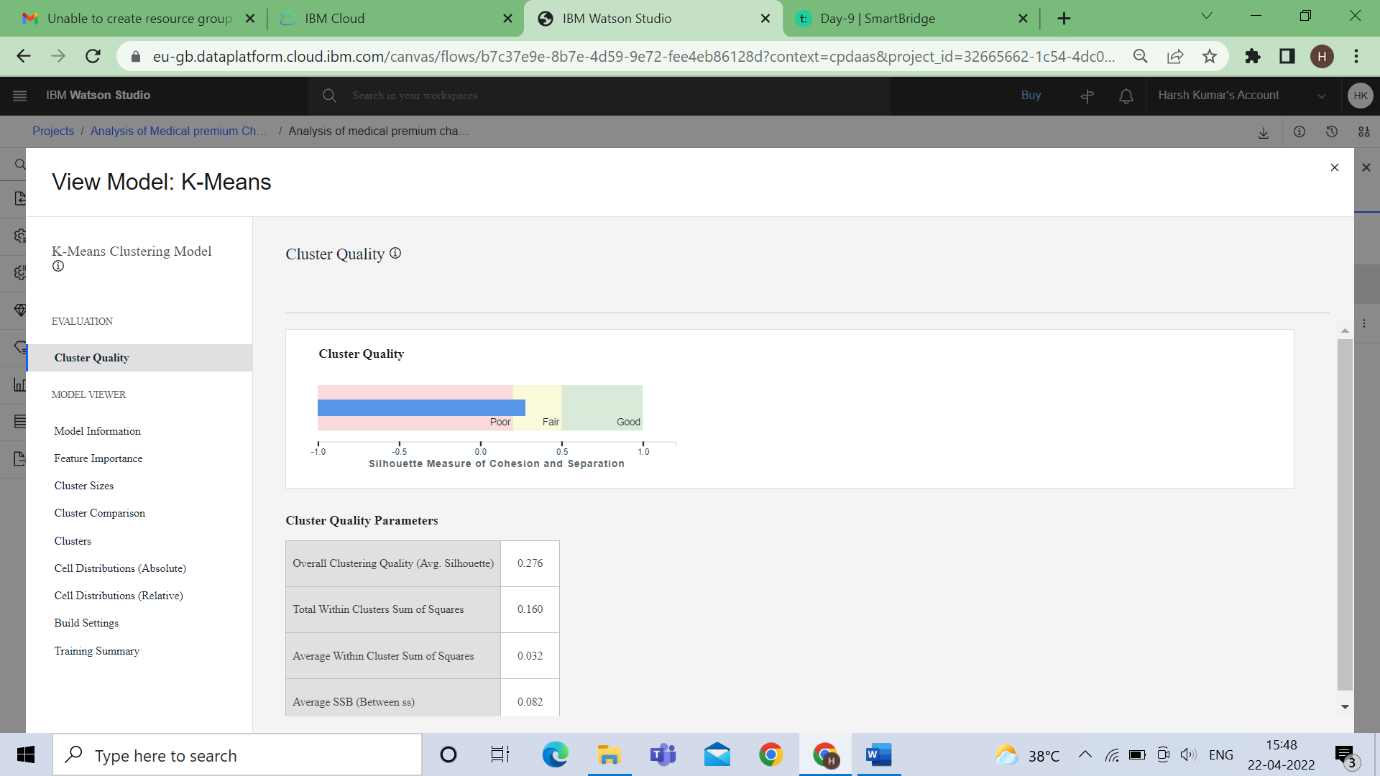
**Testing – 30%**

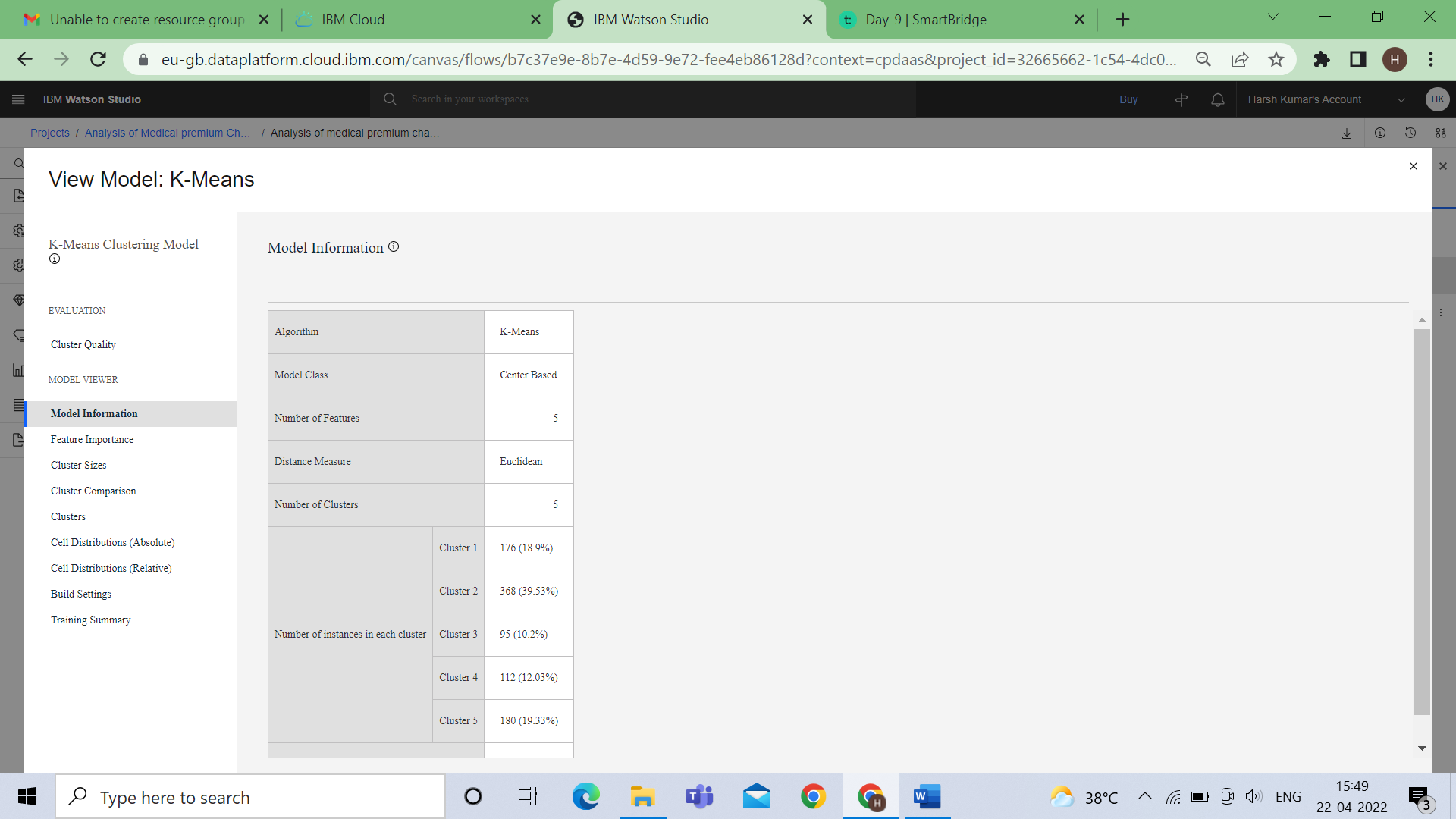
****

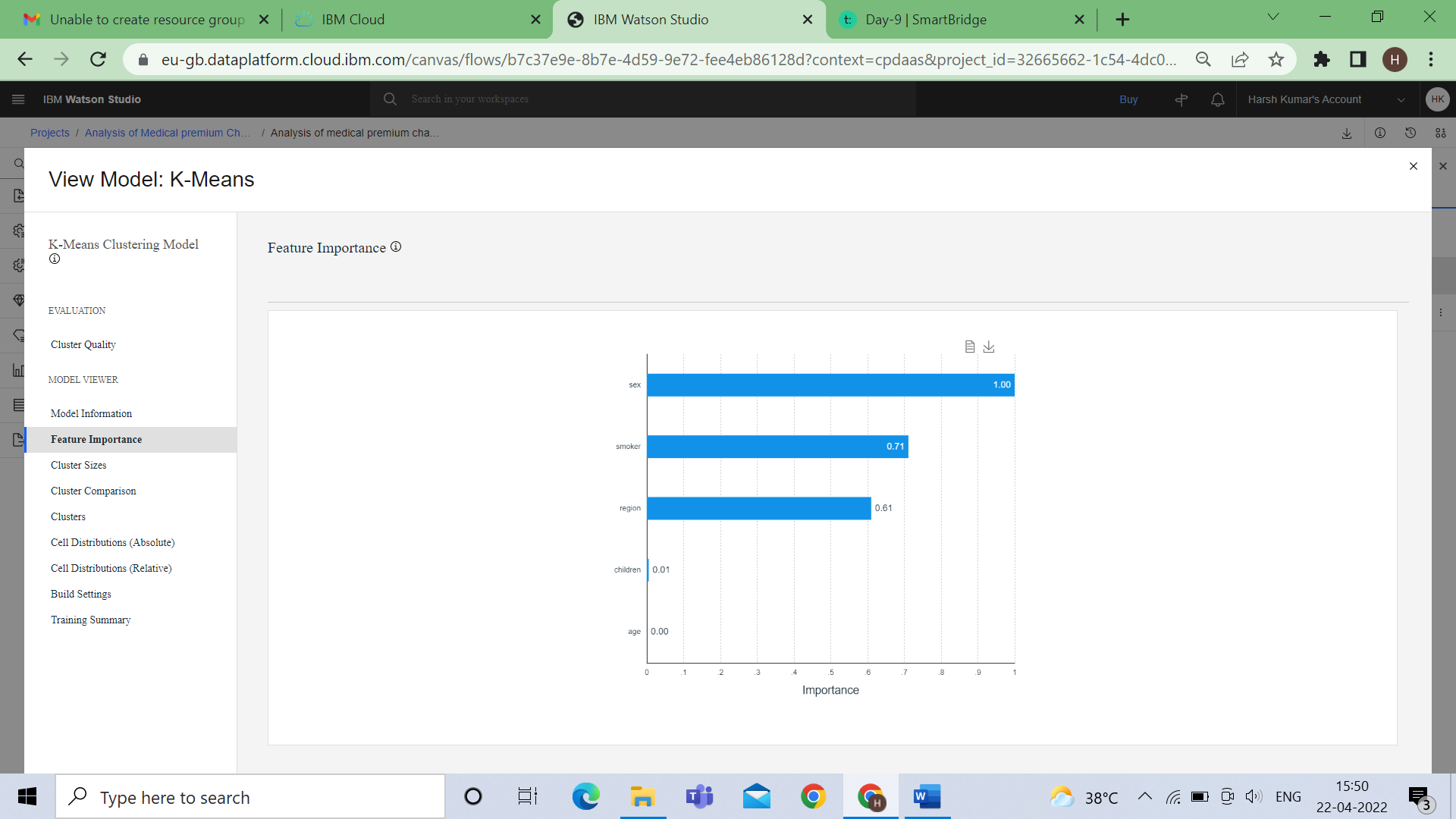
* **Model**

****

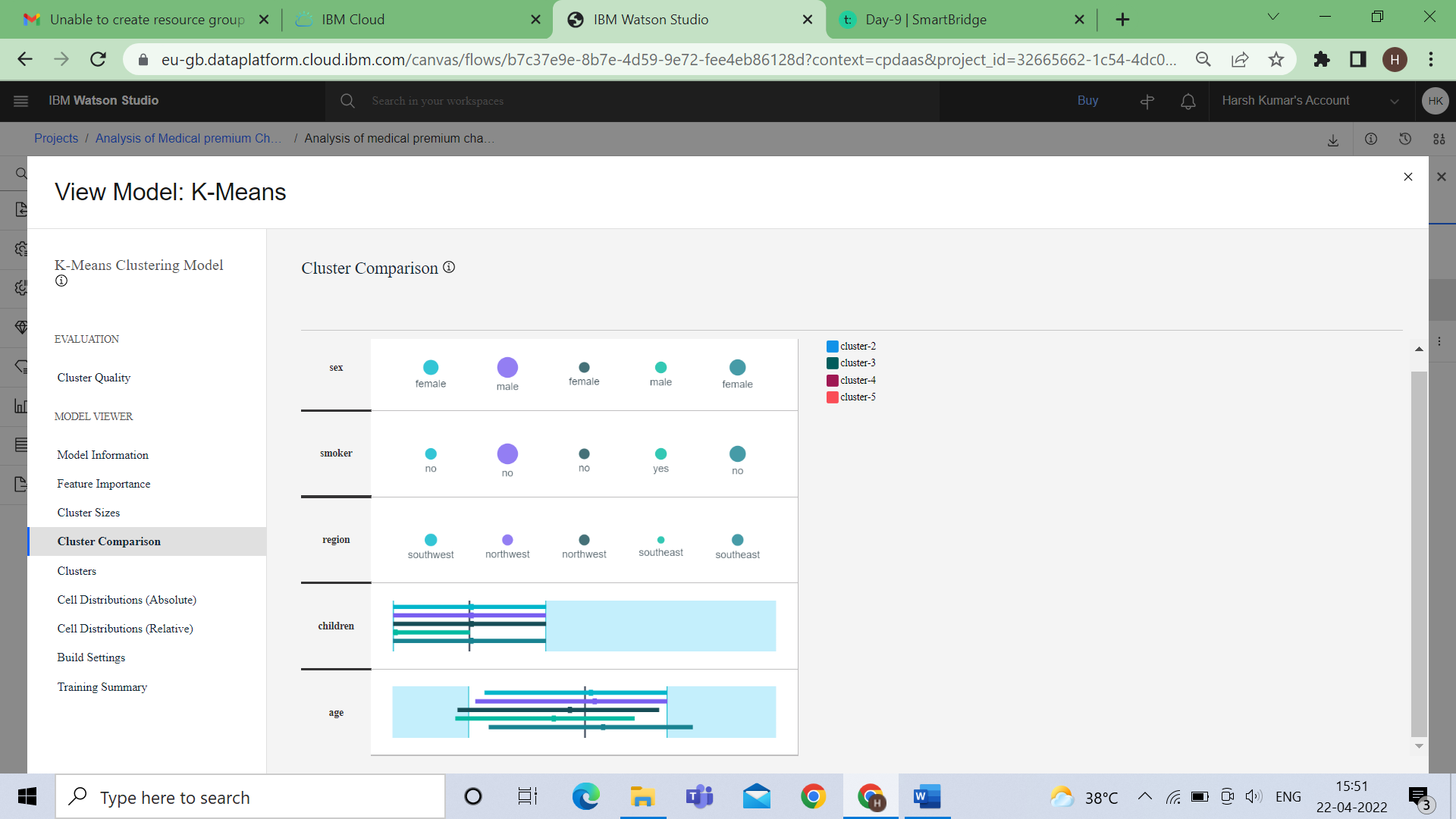
* **Output**

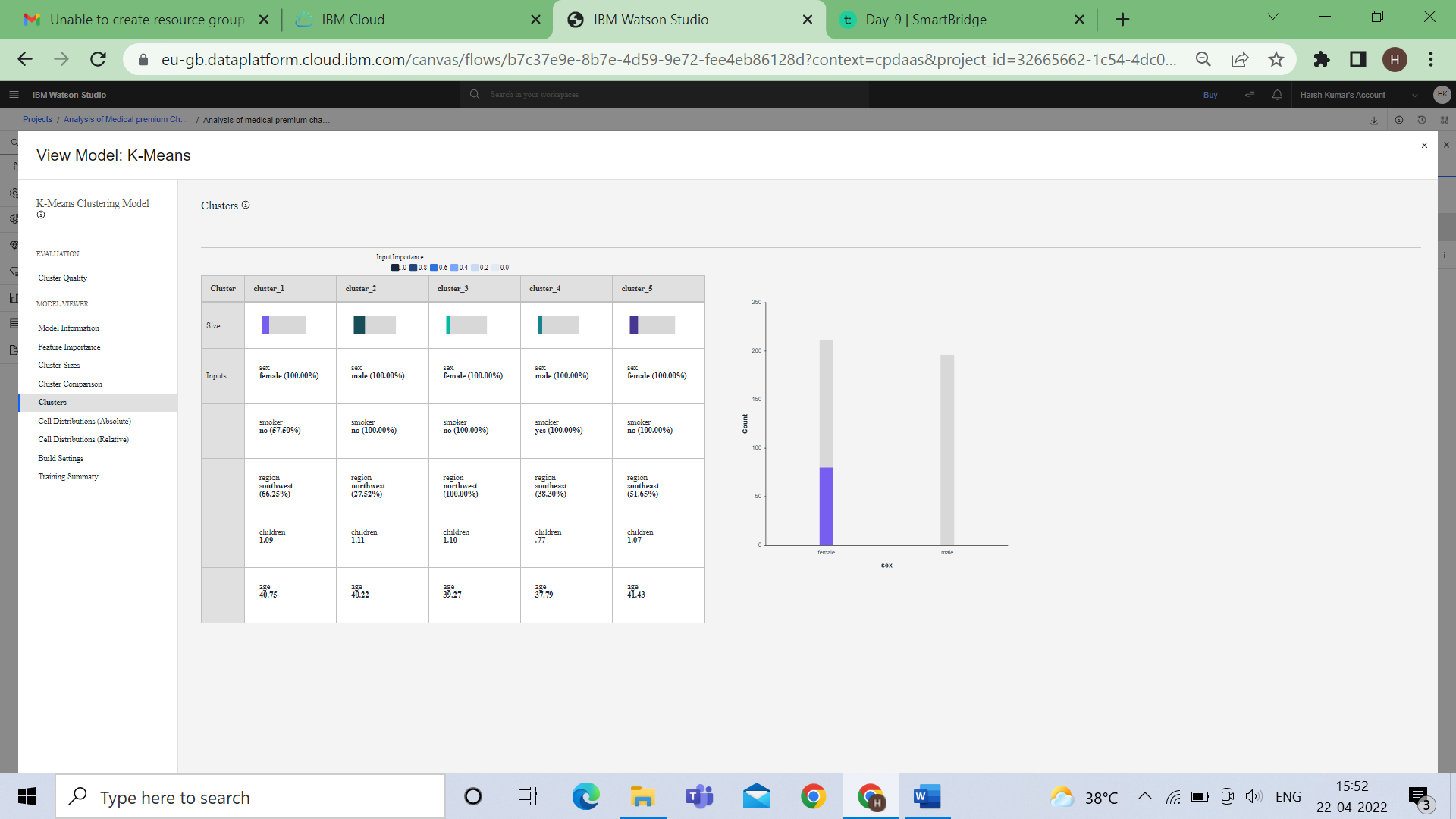
****

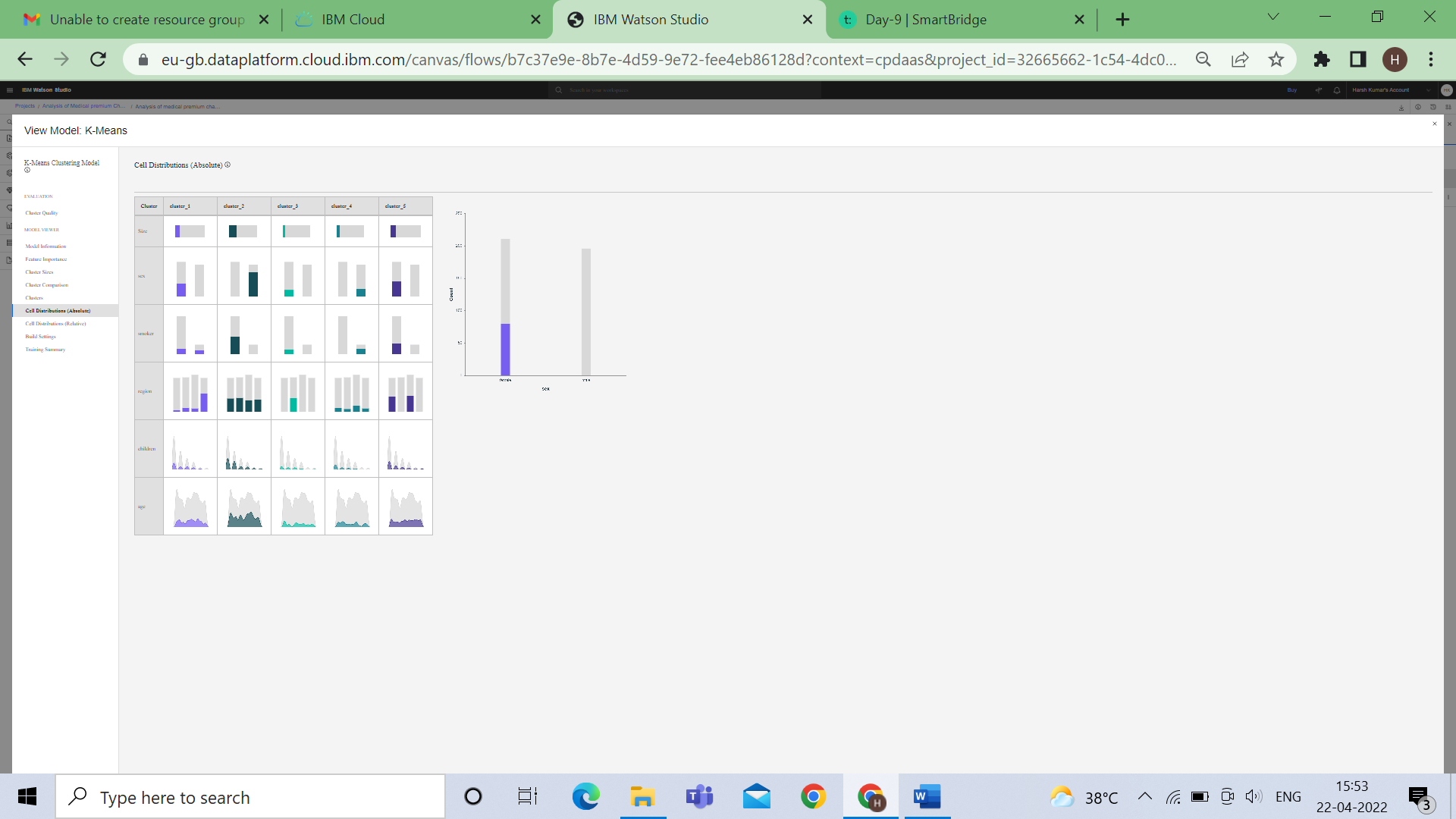


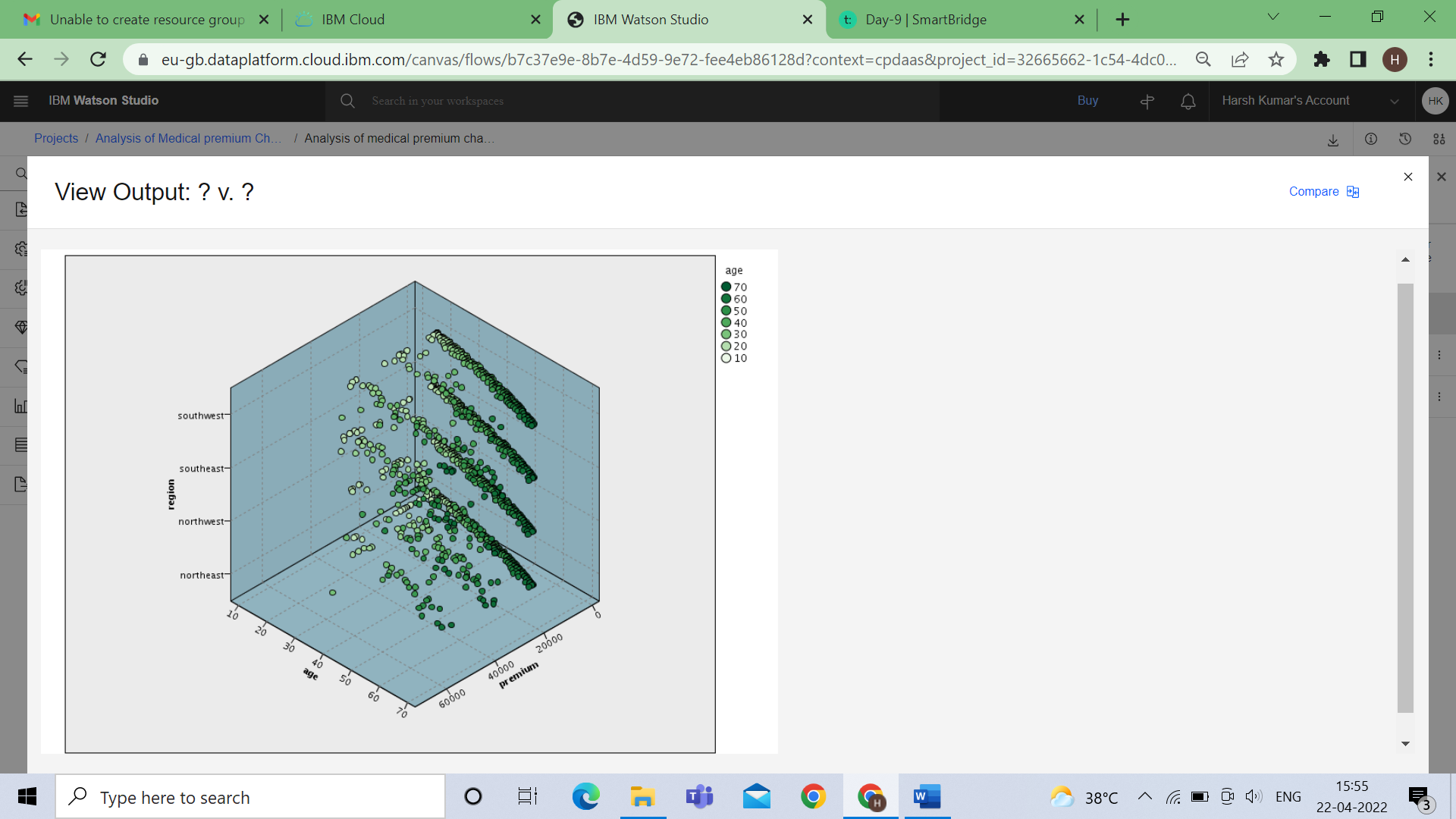




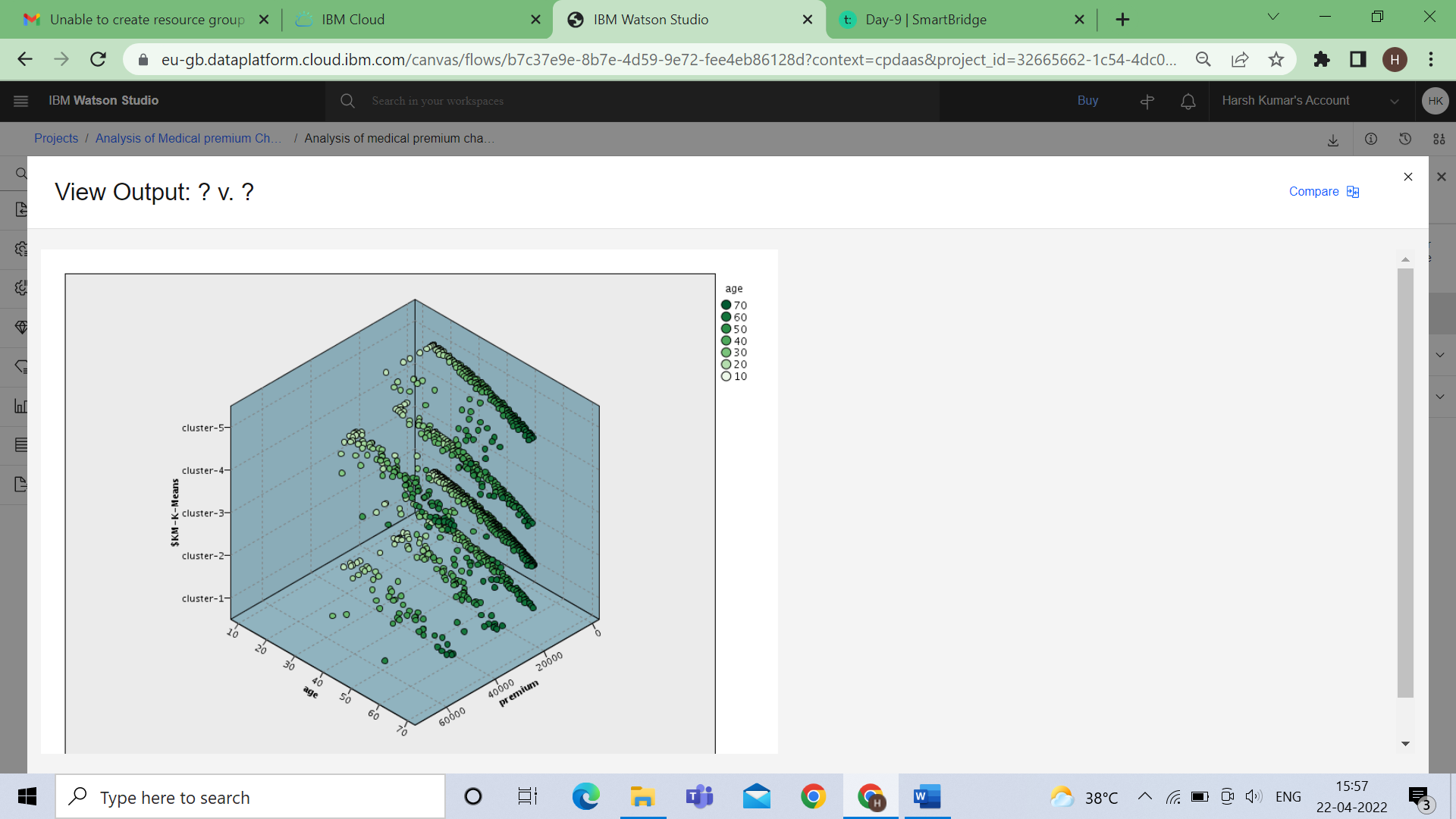








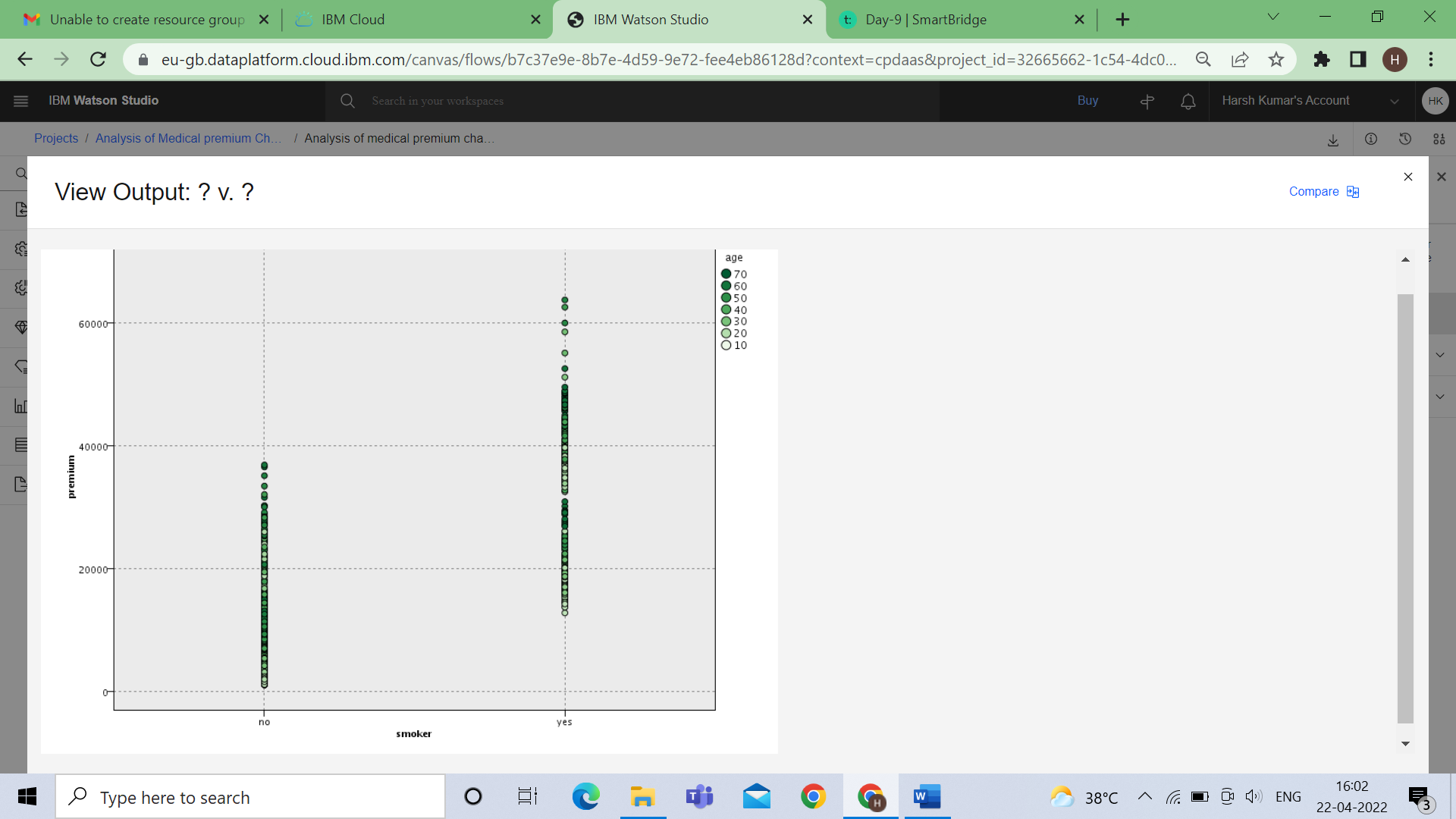
**x-axis=age , y-axis=region ,z -axis=premium**



**x-axis=age , y-axis=$KM-k-Means ,z -axis=premium**



**x-axis=age , y-axis=premium**



**x-axis=smoker , y-axis=premium**

* + **Data Audit**

