

**ECOMMERCE DATABASE FOR TRANSACTION PATTERNS OF DIFFERENT COUNTIRES**

**Course Name – Probability and Statistics**

**Course Code – CSL 227**

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**Project Title: ECOMMERCE DATABASE**

**Description of Project:**

 The dataset consists of**transactional data with customers in different countries who make purchases from an online retail company based in the United Kingdom (UK) that sells unique all-occasion gifts.**

**Problem Statement:**

The problem is to find the different orders being taken place between the different countries. It is easier to maintain and view or explain the databases or records of the data stored in different tables in a single format for anyone, keeping that thing in mind, we have created an efficient system which will display the visual representation of the ECOMERCE DATABASE hence making the things easy for even an non-technical person to understand the Data. Also saving the details of the purchase records being issued per month, day and hour. It will be easy to show maximum, average and graphical representation of the purchases done by any particular company.

**Problem Analysis:**

The issue of the program is to showcase differences between purchases done in months, day and hours, and, to showcase the details of latest orders issued in the country. The other problem is to make the visualization very clear and easier for the user to read.

**Program Design:**

**Programming Requirements:**

The programming requirement for the program are very few as the plotting and detailing done is all to be seen and not to be operated on by the user(apart from some commands).

**Data/Input Output Description:**

The project is based on visual representation of the given ecommerce data so the programming is made by using numpy, pandas, matplotlib library, seaborn, EDA , thinnkplot, thinkstats2 and packages. The output can be seen in various types such as list DataFrame and graphs.

**Algorithmic Approach/Algorithm/DFD/ER diagram/Program Steps:**

**Implementation and Testing:**