

**Walmart Online Pick-up Orders Machine**

A picture containing graphical user interface

Description automatically generated

**company background:**

Walmart Inc. is an American multinational retail corporation that runs a chain of hypermarkets, discount department stores, and grocery stores from the United State. The company was founded by Sam Walton in nearby Rogers Arkansas in 1962.

In 2018, Walmart launched a giant vending machine for online pickup orders. Customers simply arrange their shipment ahead of time, visit the store, and access their order via a barcode scanner on the side of the machine. Each package is preloaded by workers. Walmart is planning to expand their business and reach out to more shoppers through their pickup stations.

**Motivation:**

Their objective is to find out the most crawded public transportation stations. We will help them by analyzing MTA dataset and providing to them the stations that are sutiable to their pickup stations.

**Questions/needs:**

1. What is the top 20 busiest stations?
2. What is the recommended number of pickup boxes based on the average number of commuters for each station?
3. What is the busiest time of the day in order to have enough support staffs in the pickup stations?
4. Was there any vending machine used at the stations?

**Data description:**

|  |  |
| --- | --- |
| Field Name | Description |
| C/A | Control Area |
| UNIT | Remote Unit for a station |
| SCP | Subunit Channel Position representations an specific address for a device |
| STATION | The station name the device is located at |
| LINENAME | All train lines that can be boarded at this station |
| DIVISION | The Line originally the station belonged to BMT, IRT, or IND |
| DATE | The date (MM-DD-YY) |
| Time | The time (hh:mm:ss) for a scheduled audit event |
| DESc | The “REGULAR” scheduled audit event (Normally occurs every 4 hours) |
| ENTRIES | The cumulative entry register value for a device |
| EXIT | The cumulative exit register value for a device |

**Tools:**

* Python programming language
* Juyter lab as programing environment
* Numpy and pands for data maniplution&SQL
* PowerPoint for presentation

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