**Data modeling I using Visio and Access**

**ER Diagram:**

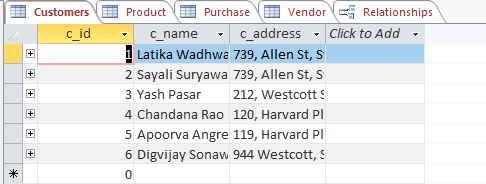


**Shopping Site Database: The database Shopping Site has 4 tables namely:**

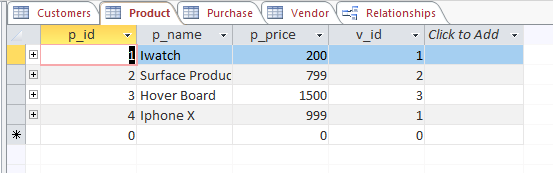
* Customers
* Vendor
* Purchase
* Product

The datasheet view of each table is attached below:

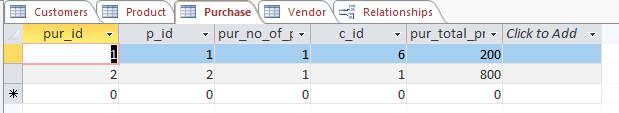
**Customer:**



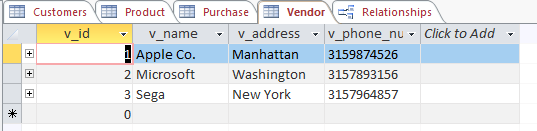
**Product:**



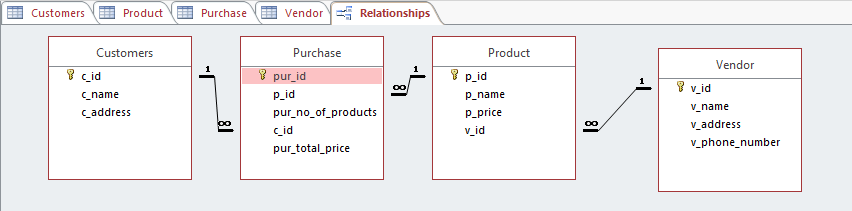
**Purchase:**



**Vendor:**



**Data Relationship Model:**



**Question:**

Currently in this ERD every purchase can only have at most one type of product. If we want to allow a purchase to have more than one type of product, how would you change this ERD to accommodate this new need? (If possible please provide corrected ERD) In order to accommodate more than one type of product in a purchase, we make a new entity named “Purchased Products” which has pur\_id, p\_id and pur\_no\_o\_products as it’s attributes. Pur\_id and p\_id are foreign key attributes and they together form a composite key. The attributes p\_id and pur\_no\_of\_products is deleted from the purchased table. These changes will allow 1 pur\_id to have many product\_ids i.e. p\_id and their respective quantity. The updated ER diagram is attached below: