**Team 10 – Cosmos DB Multi-Model**

**Team Members:**

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**Topic:** Instacart Market Basket Data Analysis and Management System

**Data Model:** Document (NoSQL) Data Model, Graph Data Model

**Target Platform:** Azure Cosmos DB

**API:**

* Core SQL API: Document Data Model
* Gremlin API: Graph Data Model

**Scope and Objectives:**

* Representing product categories and relationships between products as a document database to improve recommendation accuracy.
* Storing customer profiles and order history as documents to personalize recommendations.
* Using a document-graph hybrid model to analyze and visualize relationships between customers and the products they ordered, visualize the location of products that are more likely to be reordered.
* Implementing a graph database model to visualize the relationships between customers, products, and product availability locations.
* Analyzing the details, frequency, and likelihood of the most frequently ordered products.

**Visualization:**

* G.V() - Gremlin Graph Database IDE and Visualization Tool
* Microsoft Power BI