**Title of Project:**

**EcoBricks: The Sustainable Furniture Revolution**

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**GitHub URL: [https://github.com/akshithadanamaina/Database-systems]**

**SQL environment: Windows**

**Part 1**

**Business Description:**

EcoBricks is a revolutionary sustainable furniture company that designs and produces furniture items using plastic waste. As the world grapples with the challenges of managing plastic waste, our company is at the forefront of transforming these pollutants into elegant and durable furniture pieces. Our products range from chairs and tables to decorative pieces for home and office use.

**Estimated Company Size:**

**People:** 150 employees

* 50 in design and development
* 80 in manufacturing and production
* 10 in logistics and supply chain
* 10 in sales and marketing

**Locations:** Primary office in New York City with factories in Los Angeles and Miami. We operate in 5 major cities including New York, Los Angeles, Miami, San Francisco, and Dallas.

**Supply Chain:**

1. **Raw Materials:**

* Recycled Plastics: The primary material used for creating the furniture. This includes HDPE (High-Density Polyethylene), LDPE (Low-Density Polyethylene), and PET (Polyethylene Terephthalate) plastics.
* Reinforcing Agents: These are used to enhance the strength of the furniture. Examples include natural fibers such as jute or bamboo.
* Colorants and Finishes: Essential for aesthetics, these are used to give our furniture vibrant colors and a polished finish.

1. **Material Sources:**

**Recycled Plastics:**

* Local waste management facilities.
* Collaborations with restaurants and shopping centers for collection of their plastic waste.

**Reinforcing Agents:**

* Bamboo sourced from sustainable farms in Georgia and North Carolina.
* Jute sourced from ethical suppliers in India and Bangladesh.

**Colorants and Finishes:**

* Local suppliers in New York who abide by eco-friendly and non-toxic standards.
* Specialty suppliers in Europe, known for their sustainable production methods.

1. **Primary Office and Operational Cities:**

* Our primary office is located in Manhattan, New York City.
* We operate in five major cities: New York, Los Angeles, Miami, San Francisco, and Dallas.

By leveraging the vast amounts of plastic waste and transforming them into valuable products, EcoBricks not only serves an environmental cause but also offers stylish, sustainable furniture solutions to conscious consumers worldwide.

**Part 2: Network Model**

