



## DAM HOUSEHOLD APPLIANCES STORE

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# 1 BUSINESS DESCRIPTION

## 1.1 VISION

By devoting effort into the development and promotion of smart household appliances, we aim to transform people's lifestyle so that daily life can become more convenient, productive and enjoyable. We also aim to provide our customers with the best user experience that nowhere else can offer.

## 1.2 COOPERATE OBJECTIVES

The corporate objectives of the company are to become a household name as a competitor of other appliances making companies in Lithuania and globally. Moreover, the company aims to modify the products worldwide due to its quality. In addition to all the other objectives of the company are to become, the number one brand in New York in the products in order to satisfy the wants and preferences of the customers.

## 1.3 SHORT TERM OBJECTIVES

There is a wide product range of household appliances, from washing machine, refrigerator to dishwasher, oven and microwave etc. As a start-up, our short-term objective in a three-year time period to focus on developing the most promising household appliances that will shine in the market. These are smart washing machine and smart refrigerator.

## 1.4 PRODUCT EXAMPLES

Smart washing machine

The biggest hassle of doing laundry is probably the physical labour required

to load the machine at the start and do all the sorting after drying. In the short-term development period, we aim to develop a washing machine which is equipped with automatic loading function. A container platform with a weight sensor in its inner bottom is designed to locate at one side of the washing machine. The container accumulates the clothes being put in everyday and when the sensor detects a certain amount of weight predetermined by the user, it will automatically load itself and put in washing powder to start doing the laundry.

Smart refrigerator

The smart refrigerator can keep track of its contents. There is a touch-screen device located outside on the refrigerator with an embedded grocery database. What it only takes the user is a few seconds to register the groceries before loading them into the refrigerator and erase their names on the homepage of the touch screen after using them up. The device also allows the user to add in customized new items to the database. The convenience of this record setup can be mostly reflected when the user is shopping at the supermarket that the home stock can be easily checked via mobile devices, which are connected to the touch-screen device on the refrigerator. A recommended recipe can also be flashed on screen to help the user prepare for a nice dinner.

## 2 MODEL DESCRIPTION

### 2.1 DEFINITIONS & ACRONYMS

**Relation:** In general, a relation is a table, i.e., data is arranged in rows and columns. A relation has the following properties:

**Tuple:** The rows of tables in a relationship are generally termed as Tuples.

**Attributes:** The columns or fields of a table is termed as Attributes.

**Degree:** The number of attributes in a relation determines the degree of relation. A relation having three attributes is said to have a relation of degree 3.

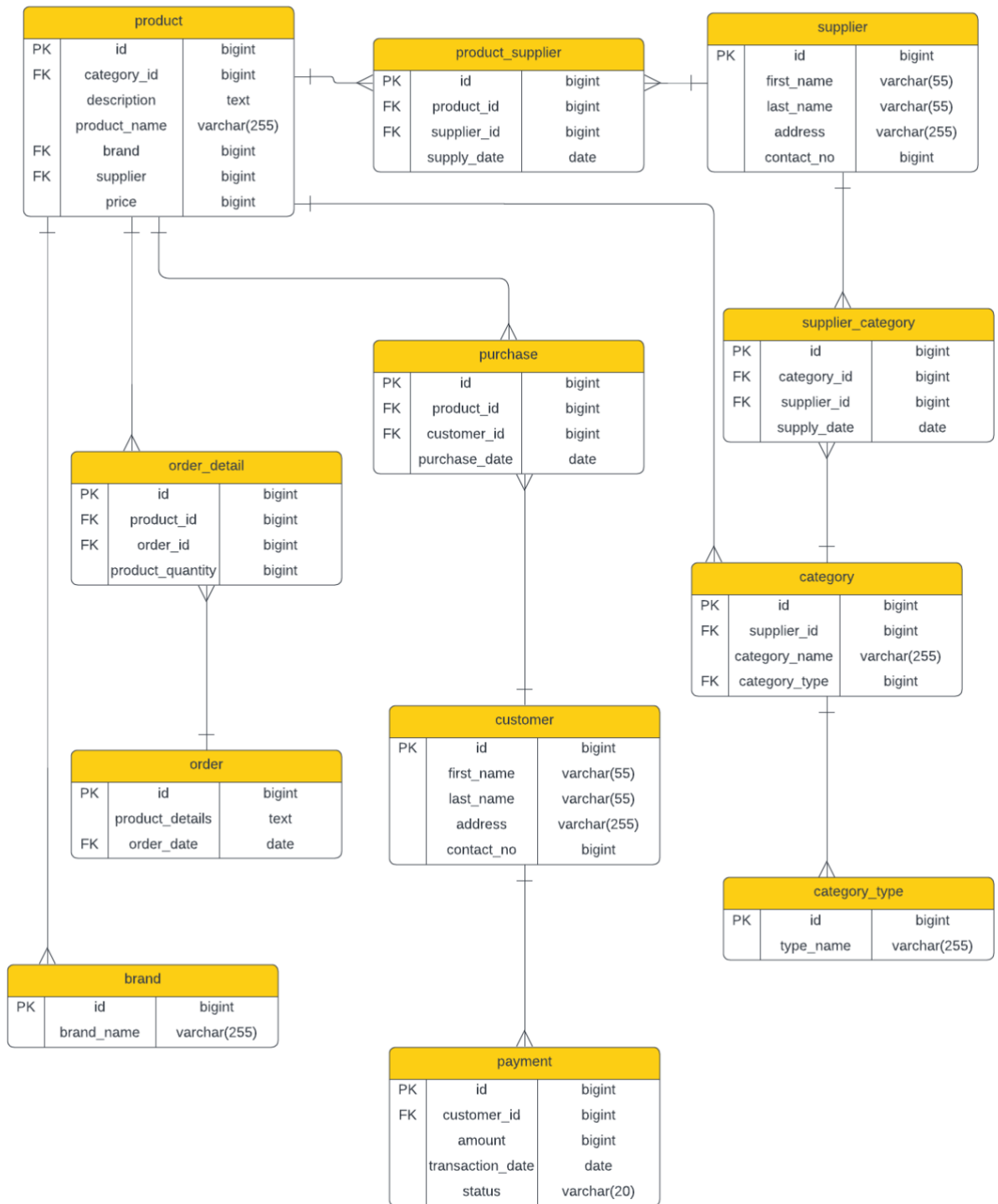
**Cardinality:** The number of tuples or rows in a relation is termed as cardinality.

### 2.2 LOGICAL SCHEME

# Household Appliances Store

## Logical Schema

Damilola Akingbesote | January 13, 2023



## 2.3 OBJECTS

### 1. product Table

The product section will store all details relating to the product to be purchased including the description and brand of the product

Table Name	Field name	Field Description	Data Type
product	id	PK	bigint
	Category_id	FK	bigint
	description		text
	Product_name		Varchar(255)
	brand	FK	bigint
	supplier	FK	bigint
	price		

Tables Relations Comments

Example with filled data

id	Category_id	description	Product_name	brand	supplier	price
1	2321`	For washing jeans and other clothes	LG Washing Machine A200	LG	Miskulani Teru	78