DATA MODEL FOR AN APPLICATION OF SUPERMARKETS

Shops	
Columns	
Address	
Name	
Id	primary key

Products	
Columns	
Name	
Category	
Barcode	
Price	
Id	primary key

Supplier	
Columns	
Name	
Contact_info	
Id	primary key

Stock_Availability	
Columns	
Shops_Id	foreign key
Products_Id	foreign key
Quantity_available	

Each shop can stock many products. Many to many relationship, because one record in table «shops» can be associated with many records in the table «products». Because the same product can be available in different shops.

The supporting table is «Suppliers», because different suppliers can deliver the same product.

Shops

products

Many-to-Many

1	FRESH	Østergade,52
2	SILPO	Vesterbrogade 66
3	FOZZY	Vimmelskaftet 37
4	NOVUS	Østergade 11

1	123
2	123
3	344
4	5444

123	Sugar	grocery	1234567890	18
125	Flour	grocery	1234567891	25
344	Noodles	grocery	1234567892	15
5444	Rice	grocery	1234567893	35