**Q6:**

Here's a text-based representation of the entities and their relations:

**Entities:**

1.System

2.Shop

3.Product

4.Category

5.Price

6.Date

**Relations:**

1.System has many shops.

2.Shop has many products.

3.Product falls into one or many categories.

4.Product has different prices on different dates.

**Attributes:**

* System:

sid (Primary Key)

sname

* Shop:

shop\_id (Primary Key)

shop\_name

sid (Foreign Key)

* Product:

pid (Primary Key)

pname

* Category:

cid (Primary Key)

cname

* Price:

price\_id (Primary Key)

price\_value

pid (Foreign Key)

did (Foreign Key)

* Date:

did (Primary Key)

dvalue

**Relations:**

System 1 --- \* Shop

Shop 1 --- \* Product

Product \* --- \* Category

Product \* --- \* Price

Price 1 --- 1 Date