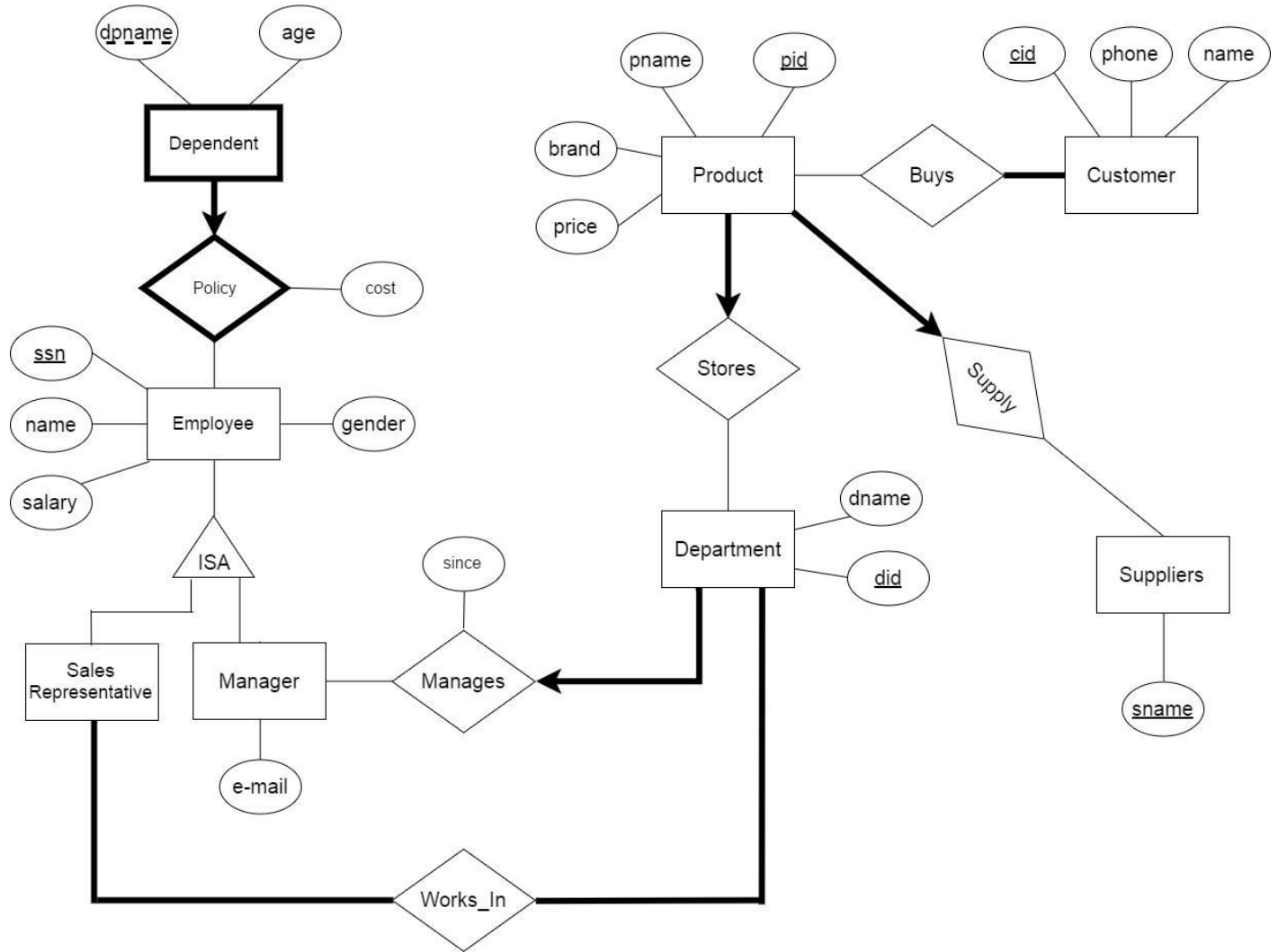


CS306 PROJECT STEP 1

SUPERMARKET DATABASE APPLICATION

In this project, we will implement a database for a supermarket. This supermarket database keeps track of the supermarket's departments, products, customers, suppliers, employees' dependents and managers and sales representatives which constitute the employees. The supermarket is divided into departments which have unique ids and unique names. There are sales representatives and each department should have at least one sales representative working on that department. Also, each of these representatives should work at least in one department. The supermarket has also managers who manage the departments and each department should be managed by only one manager. There cannot be a department without having a manager but there may be a manager who does not manage a department. A manager can also manage more than one department. We keep track of the starting date of a manager when he/she starts to manage a department and each manager has a unique e-mail address unlike a sales representative. Obviously, both of the sales representatives and managers are employees and each employee has a social security number (ssn) which is unique, a name, a salary and a gender. Some of these employees have one or more than one dependent and each dependent should absolutely be covered by one but only one policy which has a cost. The database keeps track of the names and ages of these dependents. Additionally, some of the departments store products and each of the products should be stored by only one department. There can be a department which does not store any product but there cannot be a product without having a department. In addition, each product has a name, a unique id (barcode), a brand and a price. All of these products should be brought by suppliers and there is only one supplier for each product. However, each supplier in the database may bring one or more than one product and there can be a supplier that does not bring any product. Each of these suppliers has a unique name because they are different suppliers and each of them brings different products than the others. Also, there are customers who buy products and all of these customers should buy at least one product to be stored in the database. Their customer ids which are unique, names and phone numbers will be kept track of by the database.

ER DIAGRAM:



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