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| ***Project Title*** **:** DATABASE FOR LEATHER FACTORY | |
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# Data Collection and Entity Sets Identification

In Leather factory, they need to store information about the customers, suppliers from whom the raw material is bought, product details, customer billing information, Suppliers billing information and the employees working in the factory.

All the product details should be mentioned so as to distinguish the products for example the Product\_id (Primary Key)can help us distinguish the products , Type tells us that what kind of product it is like leather jacket,purse,wallet,or belt ,Price tells us the price of the product and Brand\_name gives us the brand of the product.

Employee entity gives the information about the employees working in the factory. Employee\_id tells us the id number of the employee it is unique and not null therefore it’s the primary key.Employee\_name, Phone\_no tells us the basic information about the employee. Work\_field explains what work does the employee do in the organization for eg:a employee can either be in the cash counter desk or he could be the worker who makes the product.

Customers details entity gives the information about the customer and its attributes are Customer\_id tells us the id number of the customer. Customer\_name ,Phone\_no, Address tells us the basic information about the customer and about his whereabouts.

Customer billing entity tells us about the product the customer bought. Bill\_no (primary key) is written on the receipt through which we can know all the details about the product. Customer\_id (Primary key) tells us the id number of the customer. Date tells us the date of the specific day. Amount is the total amount the customer has to pay. Advance\_paid is the amount the customer paid before receiving the product. Balance is the amount left by the customer after paying the advance.

Leather Supplier entity gives the information about the leather supplier. Leather Supplier is the person who provides the raw material so as to manufacture goods. Supplier\_id (Primary key) tells us the id number of the supplier. Supplier\_name,Address tells us the basic information about the supplier and about his whereabouts. Contact\_no so as to get in touch with them.

Supplier Billing entity Supplier\_id tells us the id number of the supplier.Order\_id (Primary key) is written on the receipt through which we can know all the details about the material bought.Material\_name is the detail of the leather product whose leather is tanned eg sheep,goat. Material\_Color is color of the leather. Material\_Quantity the total quantity of leather purchased.Rate per dm is the price of leather per dm as leather is measured in dm.

Entity sets

# (1) Product Details– Product\_ID, Type, Price, Brand\_Name

Here

Product\_ID is simple, single valued, primary key attribute.

Type is a multi-valued attribute as there is one or more possible value.

Price is a single valued, simple attribute.

Brand\_Name is simple, single valued attribute.

# (2) Employee

Here

Employee\_id is simple, single valued, primary key attribute.

Employee\_name is a multi-valued attribute as there is one or more possible value.

Phone\_no is a single valued, simple attribute.

Work\_field is a multi-valued attribute as there is one or more possible value.

# (3) Customer Details

Here

Customer\_id is simple, single valued, primary key attribute.

Customer\_name is a multi-valued attribute as there is one or more possible value.

Phone\_no is a simple, single valued attribute.

Address is a simple, single valued, primary key attribute.

# (4)Customer Billing

Here

Bill\_no is simple, single valued, primary key attribute

Customer\_id is simple, single valued, primary key attribute

Date is a simple, single valued, primary key attribute

Amount is a simple, single valued, primary key attribute.

Advance\_paid is a simple, single valued, primary key attribute

Balance is a simple, single valued, primary key attribute.

# (5)Leather Supplier

Here

Supplier\_id is simple, single valued, primary key attribute

Supplier\_name is a simple, single valued attribute.

Contact\_no is a simple, single valued attribute.

Address is a simple, single valued attribute.

# (6)Supplier Billing

Here

Supplier\_id is simple, single valued, primary key attribute.

Order\_id is a simple, single valued attribute.

Material\_name is a multi-valued attribute as there is one or more possible value.

Material\_Color is a multi-valued attribute as there is one or more possible value.

Material\_Quantity is a multi-valued attribute as there is one or more possible value.

Rate per dm is a multi-valued attribute as there is one or more possible value.

