Title: E-Commerce Website Management

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**Introduction**

E-commerce website management is the system which manages the website of online shopping. In this website, customers can buy clothing, electronics, and accessories related to electronics and clothing. Users can use the internet for shopping and buy products at home without going anywhere. Shopping from the E-commerce website is easy and reliable, and our website has largest range of products directly from the brands and big suppliers. It allows the customers to explore various brands and types of clothes at one place.

E-Commerce website is the commercial transactions through the electronic things using internet. To develop an electronic commerce website, client chose the product and the website name to start the business. In early days, clothing business used to be retail counters and people used to hesitate to use online shopping for buying clothes and electronics but as the time is passing, increasing competition and increasing demand are the reasons for expanding businesses in online shopping. Nowadays, people are more comfortable in ordering from home instead of going to shops and buying stuff.

Entities:

1. Customer

|  |  |
| --- | --- |
| **CUSTOMER** | **Data Type** |
| FName | VARCHAR2 |
| MInitial | VARCHAR2 |
| LName | VARCHAR2 |
| Cid | NUMBER |
| CAddress | VARCHAR2 |
| Gender | VARCHAR2 |
| DOB | Date |
| User\_id | VARCHAR2 |
| Password | VARCHAR2 |
| CPhone | NUMBER |
| Email | VARCHAR2 |

1. Employee

|  |  |
| --- | --- |
| **EMPLOYEE** | **Data Type** |
| EName | VARCHAR2 |
| EAddress | VARCHAR2 |
| EPhone | NUMBER |
| Eid | NUMBER |
| Dept\_id | NUMBER |
| Email | VARCHAR2 |
| Salary\_id | NUMBER |
| Hire\_date | Date |
| ssn | NUMBER |
| DOB | Date |

1. Order

|  |  |
| --- | --- |
| **ORDER** | **Data Type** |
| Order\_id | NUMBER |
| Order\_Description | VARCHAR2 |
| Order\_date | Date |
| Item\_name | VARCHAR2 |
| Cid | NUMBER |

1. Category

|  |  |
| --- | --- |
| **CATEGORY** | **Data Type** |
| Category\_desc | VARCHAR2 |
| Category\_id | NUMBER |

1. Payment

|  |  |
| --- | --- |
| **PAYMENT** | **Data Type** |
| Payment\_id | NUMBER |
| Payment\_type | VARCHAR2 |
| Order\_id | NUMBER |
| Amount | NUMBER |
| Payment\_date | Date |

1. Suppliers

|  |  |
| --- | --- |
| **SUPPLIER** | **Data Type** |
| Supplier\_id | NUMBER |
| Supplier\_name | VARCHAR2 |
| Category\_id | NUMBER |

1. Product

|  |  |
| --- | --- |
| **PRODUCT** | **Data Type** |
| Product\_id | NUMBER |
| Product\_name | VARCHAR2 |
| Product\_price | NUMBER |
| Category\_id | NUMBER |

1. Shipment

|  |  |
| --- | --- |
| **SHIPMENT** | **Data Type** |
| Shipment\_id | NUMBER |
| Shipping\_date | Date |
| Expected Arrival | Date |
| Cid | NUMBER |
| Carrier | VARCHAR2 |

1. Dependent

|  |  |
| --- | --- |
| **DEPENDENT** | **Data Type** |
| Eid | NUMBER |
| Dependent\_Name | VARCHAR2 |
| Dependent\_Sex | VARCHAR2 |
| Dependent\_Relation | VARCHAR2 |

1. Department

|  |  |
| --- | --- |
| **DEPARTMENT** | **Data Type** |
| Dept\_id | NUMBER |
| Dept\_Name | VARCHAR2 |
| Dept\_Location | VARCHAR2 |

1. Salary

|  |  |
| --- | --- |
| **SALARY** | **Data Type** |
| Salary\_date | Date |
| Salary\_id | NUMBER |
| Eid | NUMBER |
| Amount | NUMBER |

Queries:

1. Find the customers with only clothing purchase.
2. Find the customers with only electronic product purchase.
3. Number of products supplied by a supplier.
4. Type of the product supplied by a supplier.
5. Customers who are from the State of California.
6. Number of employees in an electronics department.
7. Employee who has no dependent.
8. How many employees are also manager.
9. Employees with salary more than $15000 per month.
10. Number of customers order at least twice in a week.
11. All orders shipping to the New York.

**Relational Database Schema**

1. **CUSTOMER**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **fname** | **minitial** | **lname** | **cid** | **caddress** | **gender** | **dob** | **Usir\_id** | **password** | **cphone** | **email** |

**EMPLOYEE**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ename** | **eid** | **Dept\_id** | **Salary\_id** | **eaddress** | **gender** | **dob** | **Hire\_date** | **ssn** | **ephone** | **email** |

**ORDER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Order\_description** | **Order\_date** | **Item\_name** | **Order\_id** | **cid** |

**CATEGORY**

|  |  |
| --- | --- |
| **Category\_desc** | **Category\_id** |

**PAYMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Payment\_id** | **Payment\_type** | **Order\_id** | **amount** | **Payment\_date** |

**SUPPLIER**

|  |  |  |
| --- | --- | --- |
| **Supplier\_id** | **Supplier\_name** | **Category\_id** |

**PRODUCT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category\_id** | **Product\_name** | **Product\_price** | **Product\_id** |

**SHIPMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Shipment\_id** | **Shipping\_date** | **Expected\_date** | **cid** | **carrier** |

**DEPARTMENT**

|  |  |
| --- | --- |
| **Dept\_id** | **Dept\_name** |

**SALARY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Salary\_date** | **Salary\_id** | **eid** | **amount** |

1. **DEPENDENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **eid** | **Dependent\_sex** | **Dependent\_name** | **Dependent\_Relation** |

1. **Managed\_by**

|  |  |  |
| --- | --- | --- |
| **Category\_id** | **ssn** | **eid** |

1. **Department\_location**

|  |  |
| --- | --- |
| **Dept\_id** | **Dept\_location** |