**Student Name : Santosh Acharya**

**Student Id : c0930325**

**Program Code : CSD 2206**

**Relationship Matrix**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Entities | Customer | CustomerOrder | Address | OrderDetails | EmplyoersDetails | Department | Product |
| Customer |  | Request | Assigned address |  |  |  |  |
| CustomerOrder | Deliver order |  |  |  |  |  | List product |
| Address | Get address |  |  |  |  |  |  |
| OrderDetails |  | Assigned price details |  |  |  |  |  |
| Employers |  | Process order |  |  |  | Assigned |  |
| Department |  |  |  |  | Assigned to |  |  |
| Product |  | Product Details |  |  |  |  |  |

**Entities and Attributes**

|  |  |  |
| --- | --- | --- |
| **Entities** | **Required Attributes** | **Optional Attributes** |
| **Customer** | Customer\_contact  Customer\_name  Customer\_order  Customer\_paymethod  Zip\_code |  |
| **CustomerOrder** | OrderID  Order\_type  Order\_time  Order\_date  Zip\_code  Order\_payment  Customer\_contact  Employer\_Id |  |
| **Address** | Zip\_code  Address\_city  Address\_street  Address\_houseno |  |
| **OrderDetails** | OrderID, Orderdetails\_ID  order\_price  order\_discount |  |
| **Employers** | Employers\_id  first\_name  first\_last  birth\_date  employers\_contact  Department\_id |  |
| **Department** | Department\_id  Department\_name |  |
| **Product** | Prodcut\_id  Product\_name  Prodcut\_quantity  Product\_size  Product\_type |  |

**Each Customer may have zero, one or many CustomerOrder**

**Each Customer must have one and only one Address**

**Each CustomerOrder must have one Customer**

**Each CustomerOrder may have one or many Product**

**Each Employers can process one or many CustomerOrder**

**Each CustomerOrder can be process by one Employers**

**Each Employers have one and only one Department**

**Each Department may have one or many Employers**

**Each CustomerOrder have only one OrderDetails**

**Each OrderDetails may have one or many CustomerOrder**

**Each Address may have one or many Customer**

**ERD**