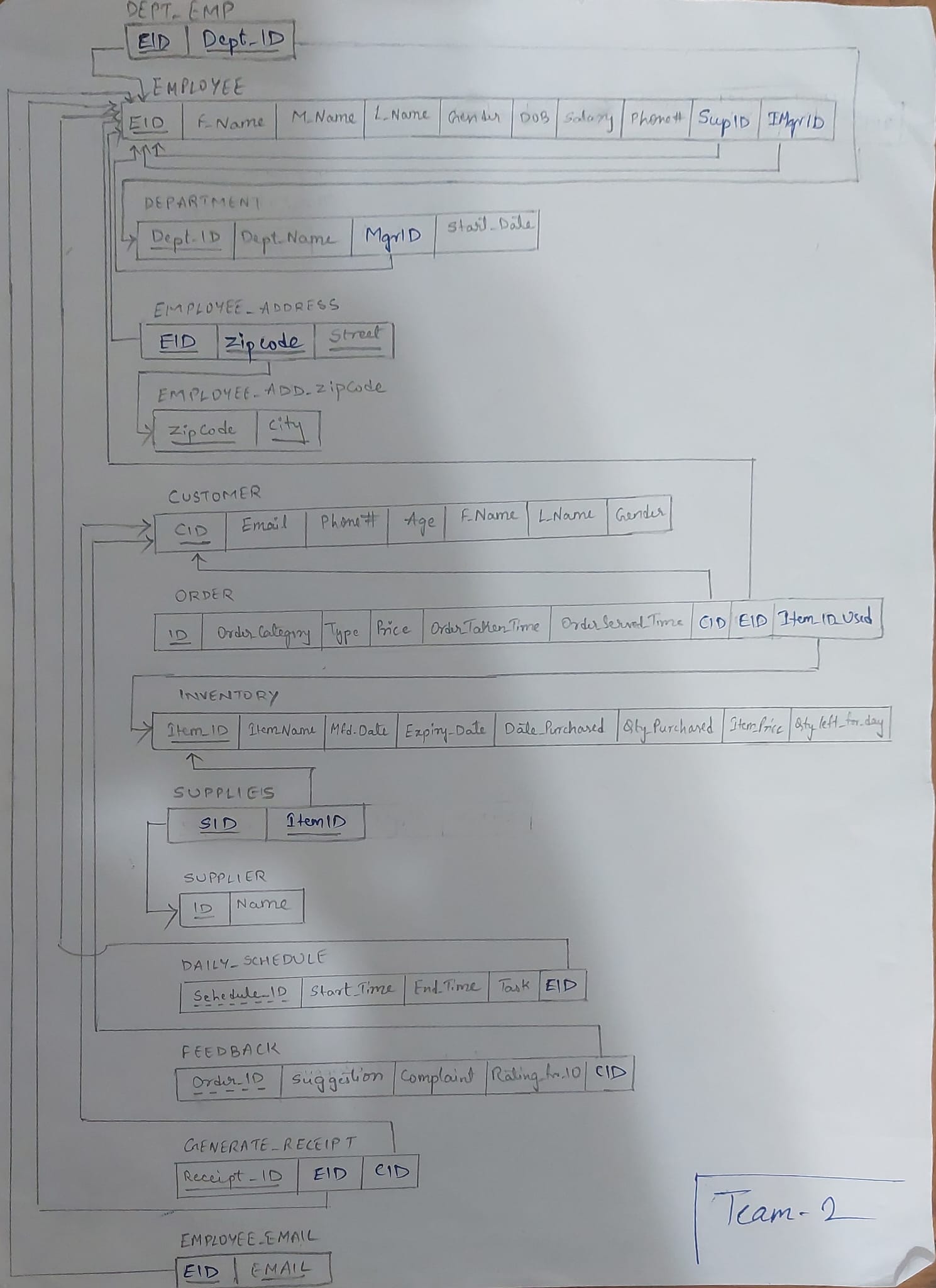
**Primary Keys are underlined with black solid lines**

**Partial Keys are underlined with black dashed lines, Foreign keys are in blue**

**Finalized ER to Relational Mapping after Normalization**

****

**Here SupID is the Supervisor ID , IMgrID is the Inventory Manager ID and MgrID is Manager ID**

**In Supplies Relation SID is the Supplier ID**

**Candidate Keys**

1. **EMPLOYEE**

* EID

1. **DEPARTMENT EMPLOYEE**

* { EID, Dept\_ID }

1. **EMPLOYEE\_ADDRESS**

* { EID, Street, ZipCode}

1. **EMPLOYEE\_EMAIL**

* { EID, Email }

1. **EMPLOYEE\_ADD\_ZIPCODE**

* { ZipCode, City }

1. **CUSTOMER**

* CID

1. **ORDER**

* ID

1. **INVENTORY**

* Item\_ID

1. **DEPARTMENT**

* Dept\_ID

1. **SUPPLIER**

* ID

1. **DAILY\_SCHEDULE**

* { Schedule\_ID, EID}

1. **FEEDBACK**

* { Order\_ID, CID }

1. **GENERATE\_RECEIPT**

* Receipt\_ID

1. **SUPPLIES**

* { SID, Item\_ID}

**Functional Dependencies**

1. **EMPLOYEE**

* EID -> {F\_Name, M\_Name, L\_Name, Gender, DOB, Salary, Phone#, Sup\_ID, IMgrID}

1. **DEPARTMENT EMPLOYEE**

* {EID,Dept\_ID} -> EID
* {EID,Dept\_ID} -> DeptID

1. **EMPLOYEE\_ADDRESS**

* {EID, Street, ZipCode} -> EID

1. **EMPLOYEE\_ADD\_ZIPCODE**

* {ZipCode, City} -> ZipCode

1. **EMPLOYEE\_EMAIL**

* {EID, Email} -> EID

1. **CUSTOMER**

* CID -> {Email, Phone#, Age, F\_Name, L\_Name, Gender}

1. **ORDER**

* ID -> {Order\_Category, Type, Price, Order\_Taken\_Time, Order\_Served\_Time, CID, EID,Item\_ID\_Used}

1. **INVENTORY**

* Item\_ID -> {Item\_Name, Mfd\_Date, Expiry\_Date, Date\_Purchased, Qty\_Purchased, Item\_Price, Qty\_left\_for\_day,}

1. **DEPARTMENT**

* Dept\_ID -> {Dept\_Name, MgrID, Start\_Date}

1. **SUPPLIER**

* ID -> Name

1. **DAILY\_SCHEDULE**

* {EID, Schedule\_ID} -> {Start\_Time, End\_Time, Task}

1. **FEEDBACK**

* {CID, Order\_ID} -> {Suggestion, Complaint, Rating\_for\_10}

1. **GENERATE\_RECEIPT**

* Receipt\_ID -> {EID, CID}

1. **SUPPLIES**

* {SID,Item\_ID} -> SID
* {SID, Item\_ID} -> Item\_ID

**Team Information:**

**Team ID: 2**

|  |  |
| --- | --- |
| **Name** | **ID** |
| Vishnu Vardhan Reddy Chitipiralla | 1002073418 |
| Sureddy Shivani Reddy | 1002072975 |
| Srikeerthi Srinivasan | 1002059216 |
| Nitya Vodela | 1002070544 |