

Some changes that I have made for schema by re-evaluating each tables

1. Removed the redundant EMP_NAME column from the Employee table, as it's already represented by FIRST_NAME and LAST_NAME.
2. Added UNIQUE constraints to C_MOBILE in the CUSTOMER table and EMP_MOBILE in the EMPLOYEE table to prevent duplicate phone numbers.
3. Retained the QUANTITY field in the SALES table and removed the foreign key reference to QUANTITY in the ORDER_ITEMS table, as it is not a unique identifier. Also added a SALE_DATE field to the SALES table.
4. Added a primary key (EMP_ID, O_ID) to the EMPLOYEE_ORDER table to avoid duplicate entries.
5. Introduced a new USER_TYPE field in the Employee table to distinguish between admin and regular employees.
6. Created a new EMPLOYEE_LOGIN table to store employee login credentials, including a unique USERNAME, PASSWORD_HASH, and a foreign key relationship with the Employee table.

Updated query block

```
CREATE TABLE CUSTOMER (  
  C_ID VARCHAR(10) PRIMARY KEY,  
  C_NAME VARCHAR(40),  
  C_MOBILE BIGINT UNIQUE  
);
```

```
CREATE TABLE PRODUCTS(  
  P_ID VARCHAR(10) PRIMARY KEY,  
  P_NAME VARCHAR(40),  
  COST_PRICE DECIMAL(10,2),  
  SELLING_PRICE DECIMAL(10,2),  
  STOCK INTEGER  
);
```

```
CREATE TABLE ORDERS(  
  O_ID VARCHAR(10) PRIMARY KEY,  
  C_ID VARCHAR(10),  
  AMOUNT DECIMAL(10,2),  
  DATE DATE,  
  FOREIGN KEY (C_ID) REFERENCES CUSTOMER(C_ID)  
);
```

```
CREATE TABLE ORDER_ITEMS(  
  O_ID VARCHAR(10),  
  P_ID VARCHAR(10),  
  QUANTITY INTEGER,  
  FOREIGN KEY (O_ID) REFERENCES ORDERS(O_ID),
```

```

    FOREIGN KEY (P_ID) REFERENCES PRODUCTS(P_ID),
    PRIMARY KEY (O_ID, P_ID)
);

CREATE TABLE PAYMENT(
    PAY_ID VARCHAR(10) PRIMARY KEY,
    O_ID VARCHAR(10),
    PAY_MODE ENUM('CASH', 'UPI', 'CARD'),
    AMOUNT DECIMAL(10,2),
    PAY_DATE DATE,
    FOREIGN KEY (O_ID) REFERENCES ORDERS(O_ID),
    FOREIGN KEY (AMOUNT) REFERENCES ORDERS(AMOUNT)
);

CREATE TABLE SALES (
    P_ID VARCHAR(10),
    QUANTITY INTEGER,
    PROFIT DECIMAL(10,2),
    SALE_DATE DATE,
    FOREIGN KEY (P_ID) REFERENCES PRODUCTS(P_ID),
    PRIMARY KEY (P_ID, SALE_DATE)
);

CREATE TABLE EMPLOYEE (
    EMP_ID VARCHAR(10) PRIMARY KEY,
    FIRST_NAME VARCHAR(15),
    LAST_NAME VARCHAR(15),
    EMP_MOBILE BIGINT UNIQUE,
    SALARY DECIMAL(5,2),
    USER_TYPE ENUM('ADMIN', 'EMPLOYEE')
);

CREATE TABLE EMPLOYEE_ORDER (
    EMP_ID VARCHAR(10),
    O_ID VARCHAR(10),
    FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID),
    FOREIGN KEY (O_ID) REFERENCES ORDERS(O_ID),
    PRIMARY KEY (EMP_ID, O_ID)
);

CREATE TABLE EMPLOYEE_LOGIN (
    EMP_ID VARCHAR(10) PRIMARY KEY,
    USERNAME VARCHAR(20) UNIQUE,
    PASSWORD_HASH VARCHAR(64),
    FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID)
);

```