Assignment – 18

Maintaining the Integrity of your Data.

1) Create a table called Cityorders. This will contain the same onum, amt and snum fields as the Orders table, and the same cnum and city fields as the Customers table, so that each customer's order will be entered into this table along with his or her city. Onum will be the primary key of Cityorders. All of the fields in Cityorders will be constrained to match the Customers and Orders tables. Assume the parent keys in these tables already have the proper constraints.

```
W2_92894_Ekta>CREATE TABLE cityorders (
    ->     onum   INT PRIMARY KEY,
    ->     amt    DECIMAL(10,2) NOT NULL,
    ->     snum   INT NOT NULL,
    ->     cnum   INT NOT NULL,
    ->     city   VARCHAR(50) NOT NULL,
    ->     FOREIGN KEY (onum) REFERENCES orders(onum),
    ->     FOREIGN KEY (cnum) REFERENCES customers(cnum),
    ->     FOREIGN KEY (snum) REFERENCES salespeople(snum)
    -> );
Query OK, 0 rows affected (0.23 sec)
```

2) Redefine the Orders table as follows:- add a new column called prev, which will identify, for each order, the onum of the previous order for that current customer. Implement this with a foreign key referring to the Orders table itself. The foreign key should refer as well to the cnum of the customer, providing a definite enforced link between the current order and the one referenced.

```
W2_92894_Ekta>CREATE TABLE orders2 (
    ->     onum   INT PRIMARY KEY,
    ->     amt    DECIMAL(10,2),
    ->     odate  DATE NOT NULL,
    ->     cnum   INT,
    ->     snum   INT,
    ->     CONSTRAINT uq_cust_sales2 UNIQUE (cnum, snum),
    ->     FOREIGN KEY (cnum) REFERENCES customers(cnum),
    ->     FOREIGN KEY (snum) REFERENCES salespeople(snum)
    -> );
Query OK, 0 rows affected (0.32 sec)
```