

**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.  
→ When we create city, snum reference it will give an error because we can't create city and snum as unique.

```
CREATE TABLE CITYORDERS (  
    ONUM INT PRIMARY KEY,  
    AMT FLOAT,  
    SNUM INT,  
    CNUM INT,  
    CITY VARCHAR(10),  
    FOREIGN KEY (ONUM) REFERENCES ORDERS(ONUM),  
    FOREIGN KEY (CNUM) REFERENCES CUSTOMERS(CNUM)  
);
```

- 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.  
→ 1) By default, it will be null and it will be shown in last column of the table.  
ALTER TABLE ORDERS  
ADD COLUMN PREV INT;