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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.

```
create table CityOrders(
onum int Primary key,
amt float(7,2),
snum int,
cnum int,
city varchar(10),
foreign key(cnum) REFERENCES customers(cnum),
foreign key(snum) REFERENCES salespeople(snum));
```

```
KD1-89245-Bhagi>desc cityorders;
                       Null | Key | Default | Extra
 Field | Type
         int
                        NO
                               PRI
 onum
                                     NULL
          float(7,2)
                        YES
                                      NULL
  amt
          int
                        YES
                               MUL
                                      NULL
  snum
         int
                        YES
                               MUL
 cnum
                                     NULL
         varchar(10) YES
  city
                                     NULL
 rows in set (0.03 sec)
```

```
KD1-89245-Bhagi>create table CityOrders(
    -> onum int Primary key,
    -> amt float(7,2),
    -> snum int,
    -> cnum int,
    -> city varchar(10),
    -> foreign key(cnum) REFERENCES customers(cnum),
    -> foreign key(snum) REFERENCES salespeople(snum));
Query OK, 0 rows affected, 1 warning (0.06 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.

```
KD1-89245-Bhagi>alter table orders
   -> add column prev int;
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
KD1-89245-Bhagi>alter table orders
   -> drop column prev;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
KD1-89245-Bhagi>alter table orders
    -> add primary key(onum);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0
KD1-89245-Bhagi>alter table orders
   -> add unique(onum,cnum);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```