

Assignment 18

Q1) 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.

```
mananshinde — mysql -u W1_92836_Manan -p — 100x23
W1_92836_Manan>create table Cityorders
[ -> select orders.onum, orders.amt, customers.snum, customers.cnum, city from orders, customers
[ -> where orders.snum = customers.cnum;
Query OK, 0 rows affected, 1 warning (0.010 sec)
Records: 0 Duplicates: 0 Warnings: 1

W1_92836_Manan>alter table cityorders add foreign key(onum)references orders (onum);
Query OK, 0 rows affected (0.017 sec)
Records: 0 Duplicates: 0 Warnings: 0

W1_92836_Manan>desc cityorders;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| onum  | int           | YES  | MUL | NULL    |       |
| amt   | float(7,2)    | YES  |     | NULL    |       |
| snum  | int           | YES  |     | NULL    |       |
| cnum  | int           | NO   |     | NULL    |       |
| city  | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.002 sec)

W1_92836_Manan>
```

Q2) 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.

```
mananshinde — mysql -u W1_92836_Manan -p — 55x28
W1_92836_Manan>select * from orders;
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
+-----+-----+-----+-----+-----+
8 rows in set (0.002 sec)

W1_92836_Manan>desc orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Onum  | int           | YES  | UNI | NULL    |       |
| Amt   | float(7,2)    | YES  |     | NULL    |       |
| Odate | date          | YES  | MUL | NULL    |       |
| Cnum  | int           | YES  |     | NULL    |       |
| Snum  | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.002 sec)

W1_92836_Manan>
```