

Assignment – 17
Constraining the Values of your data.

- 1) Create the Orders table so that all onum values as well as all combinations of cnum and snum are different from one another, and so that NULL values are excluded from the date field.

```
W1_Minal_93084>create table ord(  
-> onum int primary key,  
-> amt float(7,2),  
-> cnum int,  
-> snum int,  
-> odate date not null);  
Query OK, 0 rows affected, 1 warning (0.04 sec)
```

```
W1_Minal_93084>desc ord;
```

| Field | Type | Null | Key | Default | Extra |
|-------|------------|------|-----|---------|-------|
| onum | int | NO | PRI | NULL | |
| amt | float(7,2) | YES | | NULL | |
| cnum | int | YES | | NULL | |
| snum | int | YES | | NULL | |
| odate | date | NO | | NULL | |

```
5 rows in set (0.02 sec)
```

- 2) Create the Salespeople table so that the default commission is 10% with no NULLS permitted, snum is the primary key, and all names fall alphabetically between A and M, inclusive (assume all names will be uppercase).

```
W1_Minal_93084>create table salespeople1(  
-> snum int primary key,  
-> sname varchar(10)not null,  
-> comm decimal(5,2)not null default 10.00,  
-> constraint chk_sname_alphabet check(upper(substr(sname,1,1))between 'A' and 'M'));  
Query OK, 0 rows affected (0.04 sec)
```

```
W1_Minal_93084>desc salespeople1;
```

| Field | Type | Null | Key | Default | Extra |
|-------|--------------|------|-----|---------|-------|
| snum | int | NO | PRI | NULL | |
| sname | varchar(10) | NO | | NULL | |
| comm | decimal(5,2) | NO | | 10.00 | |

```
3 rows in set (0.00 sec)
```

- 3) Create the Orders table, making sure that the onum is greater than the cnum, and the cnum is greater than the snum. Allow no NULLS in any of these three fields.

```
W1_Minal_93084>create table Orders1(
  -> onum int,
  -> amt float(7,2),
  -> odate date,
  -> cnum int,
  -> snum int,
  -> constraint chk_onum_cnum_snum_greater check(onum > cnum and cnum > snum));
Query OK, 0 rows affected, 1 warning (0.04 sec)

W1_Minal_93084>desc orders1;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corr
near 'desc orders1' at line 1
W1_Minal_93084>desc orders1;
```

| Field | Type | Null | Key | Default | Extra |
|-------|------------|------|-----|---------|-------|
| onum | int | YES | | NULL | |
| amt | float(7,2) | YES | | NULL | |
| odate | date | YES | | NULL | |
| cnum | int | YES | | NULL | |
| snum | int | YES | | NULL | |

```
5 rows in set (0.00 sec)
```