

## 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.

```
create table new_orders(  
  onum int primary key,  
  amt float,  
  odate date not null,  
  cnum int,  
  snum int,  
  constraint u_sname_cname unique (snum, cnum)  
);  
  
desc new_orders;
```

```
D3_92972_Shubham>create table new_orders(  
  -> onum int primary key,  
  -> amt float,  
  -> odate date not null,  
  -> cnum int,  
  -> snum int,  
  -> constraint u_sname_cname unique (snum, cnum)  
  -> );  
Query OK, 0 rows affected (0.04 sec)
```

```
D3_92972_Shubham>desc new_orders;
```

Field	Type	Null	Key	Default	Extra
onum	int	NO	PRI	NULL	
amt	float	YES		NULL	
odate	date	NO		NULL	
cnum	int	YES		NULL	
snum	int	YES	MUL	NULL	

```
5 rows in set (0.00 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).

```
create table new_salespeople(  
  snum int primary key,  
  sname varchar(50) check(sname>= 'A ' and sname <= 'M '),  
  city varchar(15),  
  comm float not null default 0.10  
);  
  
desc new_salespeople;
```

```
D3_92972_Shubham>create table new_salespeople(  
  -> snum int primary key,  
  -> sname varchar(50) check(sname>= 'A ' and sname <= 'M '),  
  -> city varchar(15),  
  -> comm float not null default 0.10  
  -> );  
Query OK, 0 rows affected (0.02 sec)  
  
D3_92972_Shubham> Desc new_salespeople;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use  
near 'Desc new_salespeople' at line 1  
D3_92972_Shubham>desc new_salespeople;  


| Field | Type        | Null | Key | Default | Extra |
|-------|-------------|------|-----|---------|-------|
| snum  | int         | NO   | PRI | NULL    |       |
| sname | varchar(50) | YES  |     | NULL    |       |
| city  | varchar(15) | YES  |     | NULL    |       |
| comm  | float       | NO   |     | 0.1     |       |

  
4 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.

```
create table neworders(  
  onum int primary key not null,  
  amt float,  
  odate date,  
  cnum int not null,  
  snum int not null,  
  check (onum > cnum and cnum > snum)  
);
```

```
D3_92972_Shubham>create table neworders(  
-> onum int primary key not null,  
-> amt float,  
-> odate date,  
-> cnum int not null,  
-> snum int not null,  
-> check (onum > cnum and cnum > snum)  
-> );  
Query OK, 0 rows affected (0.02 sec)
```

```
D3_92972_Shubham>desc neworders;
```

Field	Type	Null	Key	Default	Extra
onum	int	NO	PRI	NULL	
amt	float	YES		NULL	
odate	date	YES		NULL	
cnum	int	NO		NULL	
snum	int	NO		NULL	

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