

## 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.

```
W2_93165_Shivakanya> CREATE TABLE Orders1 (  
-> onum INT UNIQUE,  
-> amount double(7, 2),  
-> odate DATE NOT NULL,  
-> cnum INT,  
-> snum INT,  
-> UNIQUE (cnum, snum)  
-> );
```

Query OK, 0 rows affected, 1 warning (0.24 sec)

```
W2_93165_Shivakanya> desc orders1;
```

Field	Type	Null	Key	Default	Extra
onum	int	YES	UNI	NULL	
amount	double(7,2)	YES		NULL	
odate	date	NO		NULL	
cnum	int	YES	MUL	NULL	
snum	int	YES		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 salespeople1(snum int primary key,sname varchar(10)  
check (Upper(sname) >= 'A' and Upper(sname)<'N') ,  
city varchar(10),comm float(3,2) default 0.10 not null);  
Query OK, 0 rows affected, 1 warning (0.27 sec)
```

```
W2_93165_Shivakanya> desc salespeople1;
```

Field	Type	Null	Key	Default	Extra
snum	int	NO	PRI	NULL	
sname	varchar(10)	YES		NULL	
city	varchar(10)	YES		NULL	
comm	float(3,2)	NO		0.10	

4 rows in set (0.00 sec)

```
W2_93165_Shivakanya> insert into salespeople (snum,sname) values(1,'bharat');  
Query OK, 1 row affected (0.10 sec)
```

```
W2_93165_Shivakanya> insert into salespeople (snum,sname)  
values(2,'mahabharat');  
Query OK, 1 row affected (0.01 sec)
```

```
W2_93165_Shivakanya> select * from salespeople1;
```

snum	sname	city	comm
1	bharat	NULL	0.10
2	mahabharat	NULL	0.10

2 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.INSERT INTO orders2

```
create table orders2(Onum int not null,amt float(7,2),
Odate date,cnum int not null,snum int not null,
Constraint check(Onum>cnum and cnum>snum));
Query OK, 0 rows affected, 1 warning (0.33 sec)
```

W2\_93165\_Shivakanya>desc orders2;

Field	Type	Null	Key	Default	Extra
Onum	int	NO		NULL	
amt	float(7,2)	YES		NULL	
Odate	date	YES		NULL	
cnum	int	NO		NULL	
snum	int	NO		NULL	

5 rows in set (0.00 sec)

W2\_93165\_Shivakanya> INSERT INTO orders2

```
-> values(10, 10,
-> '1990-01-12',
-> 10,
-> 10);
```

ERROR 3819 (HY000): Check constraint 'orders2\_chk\_1' is violated.