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### 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.

ANS : KD4-89208-Ashish>create table orders1 (

-> Onum int primary key,

-> amt float (7,2),

-> Odate date not null,

-> cnum int ,

-> snum int ,

-> unique(cnum,snum));

Query OK, 0 rows affected, 1 warning (0.06 sec)

```
KD4-89208-Ashish>create table orders1 (  
  -> Onum int primary key,  
  -> amt float (7,2),  
  -> Odate date not null,  
  -> cnum int ,  
  -> snum int ,  
  -> unique(cnum,snum));  
Query OK, 0 rows affected, 1 warning (0.06 sec)
```

KD4-89208-Ashish>desc orders1;

```
KD4-89208-Ashish>desc orders1;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| Onum  | int       | NO   | PRI | NULL    |       |  
| amt   | float(7,2)| YES  |     | NULL    |       |  
| Odate | date      | NO   |     | NULL    |       |  
| cnum  | int       | YES  | MUL | NULL    |       |  
| snum  | int       | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.01 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).

ANS: KD4-89208-Ashish>create table salespeople1(

-> snum int primary key ,

-> sname varchar(15) check(sname between 'A' and 'B'),

-> comm float(7,3)default (0.10)not null);

Query OK, 0 rows affected, 1 warning (0.04 sec)

KD4-89208-Ashish>desc salespeople1;

```
KD4-89208-Ashish>create table salespeople1(
  -> snum int primary key ,
  -> sname varchar(15) check(sname between 'A' and 'B'),
  -> comm float(7,3)default (0.10)not null);
```

Query OK, 0 rows affected, 1 warning (0.04 sec)

KD4-89208-Ashish>desc salespeople1;

Field	Type	Null	Key	Default	Extra
snum	int	NO	PRI	NULL	
sname	varchar(15)	YES		NULL	
comm	float(7,3)	NO		0.10	DEFAULT_GENERATED

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.

ANS : KD4-89208-Ashish>CREATE TABLE orders11 (

```
-> onum INT NOT NULL,  
-> amt FLOAT(7,2),  
-> odate DATE,  
-> cnum INT NOT NULL,  
-> snum INT NOT NULL,  
-> CONSTRAINT chk_onum_cnum_snum CHECK (onum > cnum AND cnum > snum)  
-> );
```

Query OK, 0 rows affected, 1 warning (0.03 sec)

KD4-89208-Ashish>desc orders11

```
-> ;
```

```
KD4-89208-Ashish>CREATE TABLE orders11 (  
-> onum INT NOT NULL,  
-> amt FLOAT(7,2),  
-> odate DATE,  
-> cnum INT NOT NULL,  
-> snum INT NOT NULL,  
-> CONSTRAINT chk_onum_cnum_snum CHECK (onum > cnum AND cnum > snum)  
-> );
```

Query OK, 0 rows affected, 1 warning (0.03 sec)

KD4-89208-Ashish>desc orders11

```
-> ;
```

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 (0.13 sec)

KD4-89208-Ashish>