

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 Orders1 (  
    Onum INT PRIMARY KEY,  
    Amt DECIMAL(10,2),  
    Odate DATE NOT NULL,  
    Cnum INT,  
    Snum INT,  
    CONSTRAINT uq_customer_sales UNIQUE (Cnum, Snum)  
);
```

```
D3_92819_Shubham>CREATE TABLE Orders1 (  
->    Onum    INT PRIMARY KEY,  
->    Amt     DECIMAL(10,2),  
->    Odate   DATE NOT NULL,  
->    Cnum    INT,  
->    Snum    INT,  
->    CONSTRAINT uq_customer_sales UNIQUE (Cnum, Snum)  
-> );  
Query OK, 0 rows affected (0.04 sec)  
D3_92819_Shubham>
```

- 1) 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(50) NOT NULL,  
  
    City VARCHAR(50),  
  
    Comm DECIMAL(4,2) DEFAULT 0.10 NOT NULL,  
  
    CONSTRAINT chk_name_range CHECK (Sname >= 'A' AND Sname <=  
'MZZZZZZZZZZ')  
  
);
```

```
D3_92819_Shubham>CREATE TABLE Salespeople1(  
->    Snum INT PRIMARY KEY,  
->    Sname VARCHAR(50) NOT NULL,  
->    City VARCHAR(50),  
->    Comm DECIMAL(4,2) DEFAULT 0.10 NOT NULL,  
->    CONSTRAINT chk_name_range CHECK (Sname >= 'A' AND Sname <= 'MZZZZZZZZZZ')  
-> );  
Query OK, 0 rows affected (0.01 sec)  
  
D3_92819_Shubham>  
D3_92819_Shubham>
```

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 Orders2 (  
    Onum INT NOT NULL,  
    Cnum INT NOT NULL,  
    Snum INT NOT NULL,  
    Amt DECIMAL(10,2),  
    Odate DATE,  
    CONSTRAINT pk_orders PRIMARY KEY (Onum),  
    CONSTRAINT chk_onum_cnum_snum CHECK (Onum > Cnum AND Cnum >  
Snum)  
);
```

```
D3_92819_Shubham>CREATE TABLE Orders2 (  
->    Onum INT NOT NULL,  
->    Cnum INT NOT NULL,  
->    Snum INT NOT NULL,  
->    Amt DECIMAL(10,2),  
->    Odate DATE,  
->    CONSTRAINT pk_orders PRIMARY KEY (Onum),  
->    CONSTRAINT chk_onum_cnum_snum CHECK (Onum > Cnum AND Cnum > Snum)  
-> );  
Query OK, 0 rows affected (0.02 sec)  
D3_92819_Shubham>
```