

## 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:**

```
CREATE TABLE Orders (  
    onum INT NOT NULL UNIQUE,  
    cnum INT NOT NULL,  
    snum INT NOT NULL,  
    order_date DATE NOT NULL,  
    CONSTRAINT unique_cnum_snum UNIQUE (cnum, snum)  
);
```

**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:**

```
CREATE TABLE Salespeople (  
    snum INT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL CHECK (name BETWEEN 'A' AND 'M'),  
    commission DECIMAL(5, 2) NOT NULL DEFAULT 10.00  
);
```

**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:**

```
CREATE TABLE Orders (  
    onum INT NOT NULL,
```

```
cnum INT NOT NULL,  
snum INT NOT NULL,  
order_date DATE NOT NULL,  
CONSTRAINT check_order_relationship CHECK (onum > cnum AND cnum > snum)  
);
```