

## Assignment – 17

### Constraining the Values of your data.

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- 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.

```
mysql> CREATE TABLE Orders (  
->     onum INT NOT NULL,  
->     cnum INT NOT NULL,  
->     snum INT NOT NULL,  
->     order_date DATE NOT NULL,  
->     PRIMARY KEY (onum),  
->     CONSTRAINT unique_cnum_snum UNIQUE (cnum, snum),  
->     CONSTRAINT chk_order_date CHECK (order_date IS NOT NULL)  
-> );
```

- 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).

```
mysql> CREATE TABLE Salespeople (  
->     snum INT NOT NULL,  
->     sname CHAR(20) NOT NULL,  
->     city CHAR(20),  
->     comm DECIMAL(5,2) DEFAULT 10.00 NOT NULL,  
->     PRIMARY KEY (snum),  
->     CHECK (UPPER(sname) BETWEEN 'A' AND 'M'));
```

- 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.

```
mysql> CREATE TABLE Orders (  
->     onum INT NOT NULL,  
->     cnum INT NOT NULL,  
->     snum INT NOT NULL,  
->     order_date DATE NOT NULL,  
->     PRIMARY KEY (onum),  
->     CONSTRAINT chk_onum_gt_cnum CHECK (onum > cnum),  
->     CONSTRAINT chk_cnum_gt_snum CHECK (cnum > snum),  
->     CONSTRAINT chk_no_nulls CHECK (onum IS NOT NULL AND cnum IS NOT NULL AND snum IS  
NOT NULL)  
-> );
```