

**Assignment – 20**  
**Changing Values through Views.**

1) Which of these views are updateable (will allow DML operations)?

- #1      Create View Dailyorders  
         as Select Distinct cnum, snum, onum, odate from Orders;
- #2      Create View Custotals  
         as Select cname, Sum (amt) Sum\_Amt from Orders, Customers  
         where Orders.cnum=Customers.cnum  
         Group by cname;
- #3      Create view Thirdorders  
         as Select \* from Dailyorders where  
         odate='1990-10-03';
- #4      Create view Nullcities  
         as Select snum, sname, city  
         from Salespeople  
         where city is NULL  
         OR sname BETWEEN 'A' and 'MZ';

2) Create a view of the Salespeople table called Commissions. This view will include only the snum and comm fields. Through this view, someone could enter or change commissions, but only to values between .10 and .20.

➔ CREATE VIEW Commissions AS  
    SELECT snum, comm  
    FROM Salespeople;

DELIMITER \$\$

```
CREATE TRIGGER validate_comm_insert
BEFORE INSERT ON Commissions
FOR EACH ROW
BEGIN
    IF NEW.comm < 0.10 OR NEW.comm > 0.20 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Commission must be between 0.10 and 0.20';
    END IF;
END$$
```

```
CREATE TRIGGER validate_comm_update
BEFORE UPDATE ON Commissions
FOR EACH ROW
```

```

BEGIN
  IF NEW.comm < 0.10 OR NEW.comm > 0.20 THEN
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Commission must be between 0.10 and 0.20';
  END IF;
END$$

```

DELIMITER ;

- 3) Some SQL implementations have a built-in constant representing the current date, sometimes called “CURDATE” or “SYSDATE”. The word SYSDATE can therefore be used in a SQL statement, and be replaced by the current date when the value is accessed by commands such as Select or Insert. We will use a view of the Orders table called Entryorders to insert rows into the Orders table. Create the Orders table, so that SYSDATE is automatically inserted for odate if no value is given. Then create the Entryorders view so that no values can be given.



```

CREATE TABLE Orders (
  onum INT PRIMARY KEY,
  amt DECIMAL(10, 2),
  odate DATE DEFAULT SYSDATE(),
  cnum INT,
  snum INT
);

```