*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'; | |

ANS:

Out of the views listed, only "Dailyorders" can be updated because it uses a straightforward SELECT statement without aggregates or GROUP BY. "Custotals" isn't updateable due to the SUM function and GROUP BY, while "Thirdorders" pulls from another view with a WHERE clause that limits results. Lastly, "Nullcities" can't be updated either, as it filters rows based on NULL values and a range. Each view highlights different aspects of the data for analysis

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.

ANS:

```
KD4-89208-Ashish>create view Commissions as select Snum, Comm
    -> from salespeople where Comm
    -> between 0.10 and 0.20;
Query OK, 0 rows affected (0.02 sec)

KD4-89208-Ashish>select* from    Commissions;
+------+------+
| Snum | Comm |
+------+------+
| 1001 | 0.14 |
| 1002 | 0.16 |
| 1004 | 0.13 |
| 1007 | 0.18 |
| 1003 | 0.12 |
+------+------+
5 rows in set (0.01 sec)
```

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.

ANS:

KD4-89208-Ashish>create table orders1 (onum int, amt decimal(10,2), odate date, cnum int, snum int);

ERROR 1050 (42S01): Table 'orders1' already exists

KD4-89208-Ashish>create table orders7 (onum int, amt decimal(10,2), odate date, cnum int, snum int);

Query OK, 0 rows affected (0.04 sec)

KD4-89208-Ashish>desc orders7;

```
KD4-89208-Ashish>create table orders1 (onum int, amt decimal(10,2), odate date, cnum int, snum int);
ERROR 1050 (42S01): Table 'orders1' already exists
KD4-89208-Ashish>create table orders7 (onum int, amt decimal(10,2), odate date, cnum int, snum int);
Query OK, 0 rows affected (0.04 sec)

KD4-89208-Ashish>desc orders7;
+-------+---------------+------+-----+---------+-------+
| Field | Type          | Null | Key | Default | Extra |
+-------+---------------+------+-----+---------+-------+
| onum  | int           | YES  |     | NULL    |       |
| amt   | decimal(10,2) | YES  |     | NULL    |       |
| odate | date          | YES  |     | NULL    |       |
| cnum  | int           | YES  |     | NULL    |       |
| snum  | int           | YES  |     | NULL    |       |
+-------+---------------+------+-----+---------+-------+
5 rows in set (0.02 sec)
```