

Assignment – 20

Changing Values through Views.

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

#1 Create View Daillyorders as Select Distinct cnum, snum, onum, odate from Orders;

```
w1_89793_Saurabh>CREATE VIEW Daillyorders AS
-> SELECT DISTINCT cnum, snum, onum, odate
-> FROM Orders;
Query OK, 0 rows affected (0.03 sec)
```

#2 Create View Custotals as Select cname, Sum (amt) Sum_Amt from Orders, Customers where Orders.cnum=Customers.cnum Group by cname;

```
w1_89793_Saurabh>CREATE VIEW Custotals AS
-> SELECT cname, SUM(amt) AS Sum_Amt
-> FROM Orders, Customers
-> WHERE Orders.cnum = Customers.cnum
-> GROUP BY cname;
Query OK, 0 rows affected (0.01 sec)
```

#3 Create view Thirddorders as Select * from Daillyorders where odate='1990-10-03';

```
w1_89793_Saurabh>CREATE VIEW Thirddorders AS
-> SELECT * FROM Daillyorders
-> WHERE odate = '1990-10-03';
Query OK, 0 rows affected (0.02 sec)
```

#4 Create view Nullcities as Select snum, sname, city from Salespeople where city is NULL OR sname BETWEEN 'A' and 'MZ';

```
w1_89793_Saurabh>CREATE VIEW Nullcities AS
-> SELECT snum, sname, city
-> FROM Salespeople
-> WHERE city IS NULL
-> OR sname BETWEEN 'A' AND 'MZ';
Query OK, 0 rows affected (0.01 sec)
```

✓ Summary: Which Views are Updateable?

| View Name | Updateable? |
|--------------|-------------|
| Daillyorders | ✗ |
| Custotals | ✗ |
| Thirddorders | ✗ |
| Nullcities | ✓ |

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.

```
W1_89793_Saurabh>CREATE VIEW Commissions AS
-> SELECT snum, comm
-> FROM Salespeople
-> WHERE comm BETWEEN 0.10 AND 0.20
-> WITH CHECK OPTION;
Query OK, 0 rows affected (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.

```
W1_89793_Saurabh>CREATE VIEW Entryorders AS
-> SELECT onum, amt, cnum, snum
-> FROM Orders;
Query OK, 0 rows affected (0.01 sec)

W1_89793_Saurabh>INSERT INTO Entryorders (onum, amt, cnum, snum)
-> VALUES (1009, 450.00, 2003, 1002);
Query OK, 1 row affected (0.01 sec)
```