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;

RIGHT ANSWER = It selects from a single table (`Orders`), with only a `DISTINCT` clause

#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';

Answer÷

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.
Answer÷
CREATE VIEW Commissions AS
SELECT Snum, Comm
FROM Salespeople
WHERE Comm BETWEEN 0.10 AND 0.20
WITH CHECK OPTION;
mysql> select * from Commissions;
+------+------+

```
| Snum | Comm |
+------+------+
| 1001 | 0.12 |
| 1002 | 0.16 |
| 1003 | 0.10 |
| 1004 | 0.11 |
| 1007 | 0.15 |
| 1100 | 0.10 |
| 2001 | 0.15 |
| 2003 | 0.12 |
| 3001 | 0.10 |
| 3002 | 0.12 |
| 3003 | 0.15 |
+------+------+
11 rows in set (0.00 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.
Answer÷

```
mysql> CREATE TABLE Orders2 (
    ->     Onum INT PRIMARY KEY,
    ->     Amt FLOAT(7,2),
    ->     Odate DATETIME DEFAULT NOW(),
    ->     Cnum INT,
    ->     Snum INT
    -> );
Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> DELIMITER $$
mysql> CREATE TRIGGER set_default_odate
    -> BEFORE INSERT ON Orders2
    -> FOR EACH ROW
    -> BEGIN
    ->     IF NEW.Odate IS NULL THEN
    ->         SET NEW.Odate = CURRENT_DATE;
```

```
    ->      END IF;
    -> END $$
Query OK, 0 rows affected (0.02 sec)


mysql> DELIMITER ;
mysql> INSERT INTO Orders2 (Onum, Amt, Cnum, Snum) VALUES (1,
100.50, 101, 201);
Query OK, 1 row affected (0.01 sec)

mysql> select * from orders2;
+------+--------+---------------------+------+------+
| Onum | Amt    | Odate               | Cnum | Snum |
+------+--------+---------------------+------+------+
|    1 | 100.50 | 2025-04-18 23:22:51 |  101 |  201 |
+------+--------+---------------------+------+------+
1 row in set (0.00 sec)
```