Assignment 20

Q1) Which of these views are updateable (will allow DML operations)?

a. Create View Dailyorders as Select Distinct cnum, snum, onum, odate from Orders;

➢ NOT UPDATABLE because there is DISTINCT.

b. Create View Custotals as Select cname, Sum (amt) Sum_Amt from Orders, Customers

where Orders.cnum=Customers.cnum Group by cname;

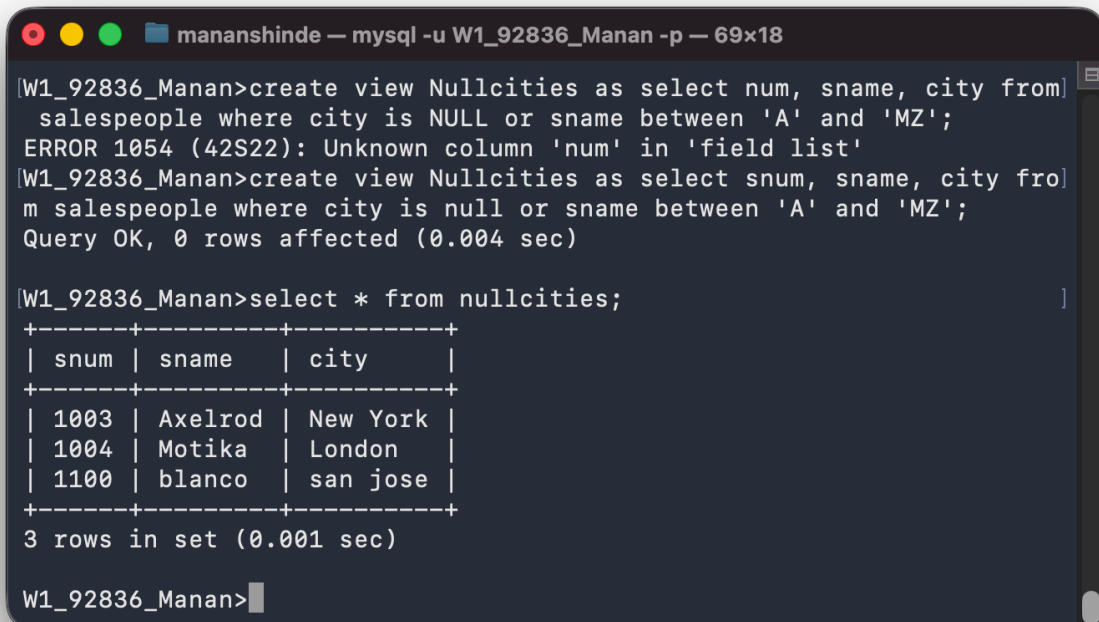➢ NOT UPDATABLE because there is GROUP BY clause.

c. Create view Thirdorders as Select * from Dailyorders where odate='1990-10-03';

➢ NOT UPDATABLE because it is depend on Dailyorders. And this itself is not updatable.

d. Create view Nullcities as Select snum, sname, city from Salespeople where city is

NULL OR sname BETWEEN 'A' and 'MZ';

➢ This is UPDATABLE.

```
[W1_92836_Manan>create view Nullcities as select num, sname, city from]
 salespeople where city is NULL or sname between 'A' and 'MZ';
ERROR 1054 (42S22): Unknown column 'num' in 'field list'
[W1_92836_Manan>create view Nullcities as select snum, sname, city fro]
m salespeople where city is null or sname between 'A' and 'MZ';
Query OK, 0 rows affected (0.004 sec)

[W1_92836_Manan>select * from nullcities;                              ]
+------+----------+----------+
| snum | sname    | city     |
+------+----------+----------+
| 1003 | Axelrod  | New York |
| 1004 | Motika   | London   |
| 1100 | blanco   | san jose |
+------+----------+----------+
3 rows in set (0.001 sec)

W1_92836_Manan>
```

Q2) 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.

```
mananshinde — mysql -u W1_92836_Manan -p — 69×20

[W1_92836_Manan>create view commisions                             ]
[     -> as                                                        ]
[     -> select snum, comm from salespeople                        ]
[     -> where comm between 0.10 and 0.20                          ]
[     -> with check option;                                        ]
Query OK, 0 rows affected (0.003 sec)

[W1_92836_Manan>update commisions set comm = 0.26                  ]
[     -> where snum = 1001;                                        ]
ERROR 1369 (HY000): CHECK OPTION failed 'assignment_1.commisions'
[W1_92836_Manan>update commisions set comm = 0.26                  ]
[     -> ^C                                                        ]

^C
[W1_92836_Manan>update commisions set comm = 0.15                  ]
[     -> where snum = 1001;                                        ]
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

W1_92836_Manan>
```

Q3) 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_92836_Manan>create table ordersnew3 (                             ]
[    -> onum int not null,                                            ]
[    -> amt float,                                                    ]
[    -> cnum int not null,                                            ]
[    -> snum int not null,                                            ]
[    -> odate date not null null default (curdate())                 ]
[    -> );                                                            ]
Query OK, 0 rows affected (0.007 sec)

[W1_92836_Manan>create view entryorders                              ]
[    -> as                                                           ]
[    -> select onum, amt, cnum, snum from ordersnew3                 ]
[    -> with check option;                                           ]
Query OK, 0 rows affected (0.004 sec)

[W1_92836_Manan>insert into entryorders values(1001, 2650.35, 2001, 30]
01);
Query OK, 1 row affected (0.002 sec)

[W1_92836_Manan>insert into entryoders values(1002, 5410.35, 2002, 300]
2);
ERROR 1146 (42S02): Table 'assignment_1.entryoders' doesn't exist
[W1_92836_Manan>insert into entryorders value (1002, 5410.35, 2002, 30]
02);
Query OK, 1 row affected (0.001 sec)

[W1_92836_Manan>select * from entryorders;                           ]
+------+---------+------+------+
| onum | amt     | cnum | snum |
+------+---------+------+------+
| 1001 | 2650.35 | 2001 | 3001 |
| 1002 | 5410.35 | 2002 | 3002 |
+------+---------+------+------+
2 rows in set (0.001 sec)

W1_92836_Manan>
```