

// Create and insert data into the Table named sales, as required....

```
mysql> CREATE TABLE Sales
-> (
->     O_id int(5) PRIMARY KEY,
->     O_name varchar(20),
->     Previous_balance int(5),
->     Customer varchar(20)
-> );
Query OK, 0 rows affected, 2 warnings (0.02 sec)
```

```
mysql> INSERT INTO Sales
-> VALUES
-> (11, "ord1", 2000, "Alex"),
-> (12, "ord2", 1000, "Adam"),
-> (13, "ord3", 2000, "Abhi"),
-> (14, "ord4", 1000, "Adam"),
-> (15, "ord5", 2000, "Alex");
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

1. Create a view "Sale(rollno)1" containing all the details from the sale table.

```
mysql> CREATE VIEW Sales_21co56_01
-> AS SELECT * FROM Sales;
Query OK, 0 rows affected (0.01 sec)
```

2. Display the contents of "Sale(rollno)1"

```
mysql> SELECT * FROM Sales_21co56_01;
+-----+-----+-----+-----+
| O_id | O_name | Previous_balance | Customer |
+-----+-----+-----+-----+
| 11   | ord1   | 2000             | Alex     |
| 12   | ord2   | 1000             | Adam     |
| 13   | ord3   | 2000             | Abhi     |
| 14   | ord4   | 1000             | Adam     |
| 15   | ord5   | 2000             | Alex     |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

3. Create view "Sale(rollno)2" containing order details and customer name from sale table.

```
mysql> CREATE VIEW Sales_21co56_02
-> AS SELECT O_id, O_name, Customer FROM Sales;
Query OK, 0 rows affected (0.01 sec)
```

4. Display the contents of "Sale(rollno)02"

```
mysql> SELECT * FROM Sales_21co56_02;
+-----+-----+-----+
| O_id | O_name | Customer |
+-----+-----+-----+
| 11   | ord1   | Alex     |
| 12   | ord2   | Adam     |
| 13   | ord3   | Abhi     |
| 14   | ord4   | Adam     |
| 15   | ord5   | Alex     |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

5. Create a view "Sale(rollno)3" containing order and previous balance with the amount increased by 1000 from the sale table

```
mysql> CREATE VIEW Sales_21co56_03
-> AS SELECT O_id, O_name, Previous_balance+1000
-> FROM Sales;
Query OK, 0 rows affected (0.01 sec)
```

6. Display the contents of Sale(rollno)3

```
mysql> SELECT * FROM Sales_21co56_03;
+-----+-----+-----+
| O_id | O_name | Previous_balance+1000 |
+-----+-----+-----+
| 11   | ord1   | 3000                  |
| 12   | ord2   | 2000                  |
| 13   | ord3   | 3000                  |
| 14   | ord4   | 2000                  |
| 15   | ord5   | 3000                  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

7. Create a view "Sale(rollno)4" for the sale table having order id as 13 and 14. Provide with check option clause. Test the clause by using insert and update statement.

```
mysql> CREATE VIEW Sales_21co56_04
-> AS SELECT * FROM Sales
-> WHERE O_id IN (13, 14)
-> WITH CHECK OPTION;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> INSERT INTO Sales_21co56_04
-> VALUES (15, "ord6", 5000, "Alister");
ERROR 1369 (HY000): CHECK OPTION failed '21co56.sales_21co56_04'
mysql> 
```

```
mysql> UPDATE Sales_21co56_04
-> SET O_id = 20
-> WHERE O_id = 14;
ERROR 1369 (HY000): CHECK OPTION failed '21co56.sales_21co56_04'
mysql> 
```

8. Delete a record in Sale(rollno)1 and then display the contents of sale(rollno)1 and Sal

```
mysql> DELETE FROM Sales_21co56_01
-> WHERE O_id = 11;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM Sales_21co56_01;
+-----+-----+-----+-----+
| O_id | O_name | Previous_balance | Customer |
+-----+-----+-----+-----+
| 12   | ord2   | 1000             | Adam    |
| 13   | ord3   | 2000             | Abhi    |
| 14   | ord4   | 1000             | Adam    |
| 15   | ord5   | 2000             | Alex    |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM Sales;
+-----+-----+-----+-----+
| O_id | O_name | Previous_balance | Customer |
+-----+-----+-----+-----+
| 12   | ord2   | 1000             | Adam    |
| 13   | ord3   | 2000             | Abhi    |
| 14   | ord4   | 1000             | Adam    |
| 15   | ord5   | 2000             | Alex    |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

9. Create Sale(rollno)5 view for sale table containing all details of sale table. Use read only clause and test by using update statement.

```
SQL> CREATE VIEW Sale_21co56_05  
2 AS SELECT * FROM Sale  
3 WITH READ ONLY;
```

View created.

```
SQL> INSERT INTO Sale_21co56_05  
2 VALUES(16, 'ord6', 3000, 'Amey');  
INSERT INTO Sale_21co56_05  
*  
ERROR at line 1:  
ORA-42399: cannot perform a DML operation on a read-only view
```

10. Drop view Sale(rollno)5....

```
mysql> DROP VIEW Sales_21co56_05;  
Query OK, 0 rows affected (0.01 sec)
```