Assignment No. 10

1) Write a trigger for product quantity for insert

mysql> delimiter &&

mysql> create trigger product_quantity

 -> before insert on products for each row

 -> begin

 -> if new.Quantity < 0 then

 -> set new.Quantity = 1;

 -> end if;

 -> end &&

Query OK, 0 rows affected (0.13 sec)

mysql> delimiter ;

mysql> insert into products(item, info, quantity, price, after_discount,) values("shoes", "black shoes", -6, 2000, 1900,);

Query OK, 1 row affected (0.11 sec)

mysql> select * from products where Id = 15;

```
+----+-------+------------+----------+-------+-----------------+
| Id | item | info | quantity | price | after_discount |
+----+-------+------------+----------+-------+-----------------+
| 15 |  shoes  |  black shoes  | 1 |  2000  | 1900 |
+----+-------+------------+----------+-------+-----------------+
```

1 row in set (0.00 sec)

2) Write a trigger for checking if discounted price is greater than original price

mysql> delimiter &&

mysql> create trigger checkPrice

 -> before insert on products for each row

 -> if new. after_discount > new.price then

 -> set new. after_discount = new.price;

-> end if;

-> end &&

Query OK, 0 rows affected (0.13 sec)

mysql> insert into products(item, info, quantity, price, after_discount,) values("shirt", "white shirt", 5, 2500, 2300);

Query OK, 1 row affected (0.09 sec)

mysql> select * from products where Id = 16;

```
+----+--------------+------------+----------+-------+-----------------+--------+------+
| Id |    item     |    info   | quantity | price | after_discount |
+----+--------------+------------+----------+-------+-----------------+--------+------+
| 13 |   shirt     | white shirt |   3    |  200  |   200   |
+----+--------------+------------+----------+-------+-----------------+--------+------+
```

1 row in set (0.00 sec)

3) Trigger for checking if product price is less than zero

mysql> delimiter &&

mysql> create trigger checkPrice

-> before insert on products for each row

-> begin

-> if(new. after_discount < 0 or new.price < 0) then

-> signal sqlstate '45000' set message_text = "Price cannot be less than Rs.1 ";

-> end if;

-> end &&

Query OK, 0 rows affected (0.15 sec)

mysql> delimiter ;

mysql> insert into products(item, info, quantity, price, after_discount,) values("jeans", "denim jeans", 2, -3000, -2800);

ERROR 1644 (45000): Price cannot be less than Rs.1

4) Write a trigger to check if seller's email is inserted, if blank, replace it with email

mysql> delimiter &&

mysql> create trigger SellerEmail

 -> before insert on sellers for each row

 -> begin

 -> if new.email = "" then

 -> set new.email = new.brand_name;

 -> end if;

 -> end &&

Query OK, 0 rows affected (0.17 sec)

mysql> delimiter ;

mysql> insert into sellers(email, brand_name, gst_no, phone_no) values("", "Levi", "123456", "9234673210");

Query OK, 1 row affected (0.17 sec)

mysql> select * from sellers where id = 4;

```
+----+-------+------------+--------+------------+
| id | email | brand_name | gst_no | phone_no |
+----+-------+------------+--------+------------+
| 7  | Levi  | Levi       | 123456 | 9234673210 |
+----+-------+------------+--------+------------+
```

1 row in set (0.00 sec)

5) write a trigger to check if customer phone number is greater than 10 or less than 10 and display error msg then

mysql> delimiter &&

mysql> create trigger checkPhone

 -> before insert on customers for each row

 -> begin

 -> declare pno_length INT;

 -> set pno_length = (select length(new.Phone_no));

```
    -> if(pno_length <> 0) then

    -> signal sqlstate '45000' set message_text = "Phone number should be of 10 digits only";

    -> end if;

    -> end &&
```

Query OK, 0 rows affected (0.15 sec)

mysql> delimiter ;

mysql> insert into customers(Name, Address, Phone_no, Age) values("Ayush", "mumbai", "12345", 20);

ERROR 1644 (45000): Phone number should be of 10 digits only