

# PES UNIVERSITY

## DATABASE MANAGEMENT SYSTEM

### MINORS

### LAB -9 ASSIGNMENT

NAME : SHAKTHA SHETTY

SRN: PES1UG20EC336

SEM & SECTION : 5F

1.

```
MariaDB [pes1ug20ec336]> DELIMITER $$
MariaDB [pes1ug20ec336]> CREATE TRIGGER before_update_parts
-> BEFORE UPDATE
-> ON parts FOR EACH ROW
-> BEGIN
->     DECLARE error_msg VARCHAR(255);
->     SET error_msg = ('The new quantity cannot be greater than 2 times the current quantity');
->     IF new.Qty > old.Qty * 2 THEN
->         SIGNAL SQLSTATE '45000'
->         SET MESSAGE_TEXT = error_msg;
->     END IF;
-> END $$
Query OK, 0 rows affected (0.028 sec)

MariaDB [pes1ug20ec336]> DELIMITER ;
MariaDB [pes1ug20ec336]> _
```

```
MariaDB [pes1ug20ec336]> desc parts;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| P_ID       | int(11)       | NO   | PRI | NULL    |       |
| Description | varchar(255)  | YES  |     | NULL    |       |
| Qty        | int(11)       | YES  |     | NULL    |       |
| Price      | decimal(10,2) | YES  |     | NULL    |       |
| Service_ID | int(11)       | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.030 sec)

```
MariaDB [pes1ug20ec336]> UPDATE parts
-> set Qty=25
-> where P_ID=704;
ERROR 1644 (45000): The new quantity cannot be greater than 2 times the current quantity
MariaDB [pes1ug20ec336]>
```

```
MariaDB [pes1ug20ec336]> select * from parts;
```

P_ID	Description	Qty	Price	Service_ID
700	Air Filter	3	217.99	400
701	Chain Set	2	1987.99	401
702	Clutch Plate	60	517.99	404
703	Handle Bar	4	2519.99	405
704	Horn	5	1675.78	402
705	Leg Guard	101	6217.99	403

```
6 rows in set (0.003 sec)
```

```
MariaDB [pes1ug20ec336]> UPDATE parts
```

```
-> set Qty=8
```

```
-> where P_ID=703;
```

```
Query OK, 1 row affected (0.007 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [pes1ug20ec336]> select * from parts;
```

P_ID	Description	Qty	Price	Service_ID
700	Air Filter	3	217.99	400
701	Chain Set	2	1987.99	401
702	Clutch Plate	60	517.99	404
703	Handle Bar	8	2519.99	405
704	Horn	5	1675.78	402
705	Leg Guard	101	6217.99	403

```
6 rows in set (0.001 sec)
```

```
MariaDB [pes1ug20ec336]> _
```