mysql> create database triggers;

mysql> use triggers;

mysql> show tables;

Empty set

#Before Insert

mysql> create table customers(cust_id int,age int,name varchar(30));

Query OK, 0 rows affected

mysql> delimiter //

mysql> create trigger age_verify

   -> before insert on customers

   -> for each row

   -> if new.age < 0 then set new.age = 0;

   -> end if; //

Query OK, 0 rows affected

mysql> insert into customers values(101,27,"james"), (102,-40,"Rani"), (103,32,"Ben"), (104, -39,"Raju");

Query OK, 4 rows affected

mysql> select * from customers;

```
+---------+------+-------+
| cust_id | age  | name  |
+---------+------+-------+
|    101  |  27  | james |
|    102  |   0  | Rani  |
|    103  |  32  | Ben   |
|    104  |   0  | Raju  |
```

+---------+------+-------+

4 rows in set

After Insert

mysql> create table customers1(id int auto_increment primary key,name varchar(40) not null,email varchar(30), birthdate date);

Query OK, 0 rows affected

mysql> create table message(id int auto_increment,messageId int, message varchar(300) not null, primary key(id,messageId));

Query OK, 0 rows affected

mysql> delimiter //

mysql> create trigger check_null_dob

   -> after insert on customers1

   -> for each row

   -> begin

   -> if new.birthdate is null then

   -> insert into message(messageId,message)

   -> values(new.id,concat("Hi",new.name,'please update your date of birth'));

   -> end if;

   -> end //

Query OK, 0 rows affected (0.26 sec)

mysql> delimiter ;

mysql> insert into customers1(name, email, birthdate)

```
       ->
values("Nani","nani@abc.com",null),("Rani","Rani@abc.com","1999-11-16"),("An
u","Anu@abc.com","1997-08-20"),("Raju","Raju@abc.com",null);
```

Query OK, 4 rows affected

```
mysql> select * from message;

+----+-----------+--------------------------------------+
| id | messageId | message                              |
+----+-----------+--------------------------------------+
| 1  |         1 | HiNaniplease update your date of birth |
| 2  |         4 | HiRajuplease update your date of birth |
+----+-----------+--------------------------------------+
```

2 rows in set

Before Update

mysql> create table employees(emp_id int primary key,emp_name
varchar(30),age int,salary float);

Query OK, 0 rows affected

```
mysql> insert into employees
values(101,"James",35,70000),(102,"Sony",30,55000),(103,"Marry",28,62000),(10
4,"Raju",37,37000),(105,"Rani",32,57000),(106,"Anu",35,8000),(107,"Jack",40,100
000);
```

Query OK, 7 rows affected

mysql> delimiter //

mysql> create trigger update_trigger

```
    -> before update

    -> on employees

    -> for each row

    -> begin

    -> if new.salary=10000 then

    -> set new.salary = 85000;

    -> elseif new.salary <10000 then

    -> set new.salary = 72000;

    -> end if;

    -> end //
Query OK, 0 rows affected

mysql> delimiter ;

mysql> update employees

    -> set salary = 8000;

Query OK, 7 rows affected

mysql> select * from employees;

+--------+----------+------+--------+

| emp_id | emp_name | age  | salary |

+--------+----------+------+--------+

|   101 | James    |  35 | 72000 |

|   102 | Sony     |  30 | 72000 |

|   103 | Marry    |  28 | 72000 |
```

| 104 | Raju | 37 | 72000 |

| 105 | Rani | 32 | 72000 |

| 106 | Anu | 35 | 72000 |

| 107 | Jack | 40 | 72000 |

+--------+----------+------+--------+

7 rows in set

Before Delete

create table salarydel(id int primary key auto_increment,eid int, validfrom date not null,amount float not null, deletedat timestamp default now());

Query OK, 0 rows affected

mysql> delimiter $$

mysql> create trigger salary_delete

   -> before delete

   -> on salary

   -> for each row

   -> begin

   -> insert into salarydel(eid,validfrom,amount)

   -> value(old.eid, old.validfrom, old.amount);

   -> end$$

mysql> delimiter;

delete from salary

where eid = 103;

select *from salarydel;