

## #Question1

```
DROP TRIGGER if exists moviecategory1;
delimiter //
CREATE TRIGGER moviecategory1
  before INSERT ON made_money
  FOR EACH ROW
  BEGIN
    if new.category=NULL OR
    (new.category<> 'Romantic' AND new.category<> 'Comedy' AND new.category<>'Drama'
    AND new.category<>'Action')
    then
      SET new.category='Action';
    end if;
  END;
//
delimiter ;
```

```
DROP TRIGGER if exists moviecategory2;
delimiter //
CREATE TRIGGER moviecategory2
  BEFORE UPDATE ON made_money
  FOR EACH ROW
  BEGIN
    if new.category=NULL OR
    (new.category<> 'Romantic' AND new.category<> 'Action' AND new.category<> 'Comedy'
    AND new.category<>'Drama')
    then
      SET new.category='Action';
    END IF;
  END;
//
delimiter ;
```

a)

```
INSERT into made_money  
VALUES ('IRON MAN',10000000,'2008-05-02','ACTION')
```

then we can find in the action output:

44 18:51:57 INSERT into made\_money VALUES ('IRON MAN',10000000,'2008-05-02','ACTI... 1 row(s) affected

and in the made\_money table:

MOVIE	HOW_MUCH	DAY_OPENED	Category
Irreversible	7535012.00	2002-05-22	Drama
Iron Man 2	312057433.00	2010-05-07	Action
IRON MAN	10000000.00	2008-05-02	ACTION
Into the Woods	127997349.00	2014-12-25	Drama
Interstellar	187991439.00	2014-11-07	Action
Inglourious Basterds	120523073.00	2009-08-21	Drama
Ice Age: Continent...	161317423.00	2012-06-13	Comedy
Harry Potter and th...	317557891.00	2001-11-16	Action
Harry Potter and th...	380955619.00	2011-07-15	Action
Gravity	274084951.00	2013-10-04	Action

b)

```
UPDATE made_money  
SET category='Horror'  
WHERE movie='Fight Club'
```

#INSERT into made\_money #VALUES ('IRON MAN',10000000,'2008-05-02','AC... 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0

and the made\_money table

MOVIE	HOW_MUCH	DAY_OPENED	Category
12 Years a Slave	56667870.00	2013-11-08	Drama
Angels & Demons	133375846.00	2009-05-15	Action
Bruce Almighty	85734045.00	2003-05-23	Comedy
Catch Me If You Can	60082000.00	2002-12-25	Comedy
Dallas Buyers Club	27296514.00	2013-11-22	Drama
Daredevil	431881.00	2003-02-14	Action
Derailed	22000000.00	2005-11-11	Action
Donnie Brasco	41954997.00	1997-02-28	Action
Fight Club	37023395.00	1999-10-15	Action
Gigli	4753518.00	2003-08-01	Romantic
Gravity	274084951.00	2013-10-04	Action

## #Question2

```
DROP TRIGGER if exists starmovie;
delimiter //
CREATE TRIGGER starmovie
    AFTER INSERT ON appeared_in
    FOR EACH ROW
    BEGIN
        IF
            (NOT EXISTS
             (SELECT *
              FROM appeared_in,made_money
              WHERE appeared_in.movie=made_money.movie AND appeared_in.movie<>new.movie
              AND new.star=appeared_in.star
              AND (made_money.category ='Romantic'
                   OR made_money.category ='Comedy'
                   OR made_money.category ='Drama')
              AND made_money.day_opened<
              (SELECT MM.day_opened from made_money MM
               WHERE MM.movie=new.movie)))
            THEN
                UPDATE MADE_MONEY
                SET made_money.category='DRAMA'
                WHERE made_money.movie=new.movie AND
                    made_money.category='comedy';
            END IF;
        END;
    //
delimiter ;
```

c)

```
INSERT INTO APPEARED_IN
VALUES('Matt Damon','Bruce Almighty')
```

MOVIE	HOW_MUCH	DAY_OPENED	Category	
▶ 12 Years a Slave	56667870.00	2013-11-08	Drama	
Angels & Demons	133375846.00	2009-05-15	Action	
Bruce Almighty	85734045.00	2003-05-23	DRAMA	
Catch Me If You Can	60082000.00	2002-12-25	Comedy	
Dallas Buyers Club	27296514.00	2013-11-22	Drama	
Daredevil	431881.00	2003-02-14	Action	
Derailed	22000000.00	2005-11-11	Action	
Donnie Brasco	41954997.00	1997-02-28	Action	
Fight Club	37023395.00	1999-10-15	Action	
Gigli	4753518.00	2003-08-01	Romantic	
Gravity	274084951.00	2013-10-04	Action	

#question 3

```

DROP TRIGGER if exists starmarry;
delimiter //
CREATE TRIGGER starmarry
after INSERT ON married
FOR EACH ROW
BEGIN
IF
EXISTS
(select star
      from
      (select *
      from in_couple natural join married
      group by star
      having count(star)>1 AND COUPLE_NUM=new.couple_num)x
where (x.star not in
      (select star
      from divorced natural join in_couple
      group by star)))
then
SIGNAL sqlstate '45000' set message_text = "This value is not acceptable.";
end if;
end;
//
delimiter ;

```

d) INSERT INTO MARRIED  
VALUES(1, '2015-06-26')

✓	111	19:18:09	DROP TRIGGER if exists starmarry	0 row(s) affected
✓	112	19:18:09	CREATE TRIGGER starmarry after INSERT ON married FOR E...	0 row(s) affected
✗	113	19:18:09	INSERT INTO MARRIED VALUES(1, '2015-06-26') #delete from ma...	Error Code: 1644. This value is not acceptable.

then the output in below. And this is nothing change in the married table

COUPLE_NUM	DAY
2	2008-09-27
3	1999-12-01
4	2013-08-23
5	1988-07-27
6	2005-06-25
7	2000-06-29
8	1978-01-30
9	2015-10-02
10	2015-10-04

#question4

```
DROP TRIGGER if exists atleast_money;
delimiter //
CREATE TRIGGER atleast_money
BEFORE INSERT ON made_money
FOR EACH ROW
BEGIN
IF
exists(select* from made_money
where ((new.how_much<1000) or(new.how_much>3000000000))
OR ((new.how_much<10000)and (new.category='Action'))
OR ((new.how_much>1000000000)and (new.category='Comedy'))))
then
SIGNAL sqlstate '45000' set message_text = "This value is not acceptable.";
end if;
END;
//
delimiter ;
```

e)  
insert into made\_money  
values ('Most Welcome',  
8000, '2012-07-07', 'Action')

then the output in below. And this is nothing change in the made\_money table

✓	2	10:03:43	CREATE TRIGGER atleast_money BEFORE INSERT ON made_mo...	0 row(s) affected	0.029 sec
✗	3	10:03:43	insert into made_money values ('Most Welcome', 8000, '2012-07-07'...	Error Code: 1644. This value is not acceptable.	0.0011 sec

e)  
insert into made\_money  
values ('speed',  
9000, '2010-03-28', 'Comedy')

then we see the change below:

✓	4	10:11:11	DROP TRIGGER if exists atleast_money	0 row(s) affected	0.0011 sec
✓	5	10:11:11	CREATE TRIGGER atleast_money BEFORE INSERT ON made_...	0 row(s) affected	0.030 sec
✓	6	10:11:11	#insert into made_money #values ('Most Welcome', #8000, '2012-...	1 row(s) affected	0.0024 sec

MOVIE	HOW_MUCH	DAY_OPENED	Category
The Avengers	623279547.00	2012-05-04	Action
The Apartment	8751057.00	1996-10-02	Romantic
speed	9000.00	2010-03-28	Comedy
Pirates of the Carib...	309404152.00	2007-05-25	Comedy
Paper Man	115388.00	2009-06-15	Drama
Ocean's Thirteen	117144465.00	2007-06-08	Action
My Life in Ruins	8662318.00	2009-06-05	Comedy
Mr. Success	150001.00	1984-08-07	Action

f)

```
insert into made_money
values ('Hangover',
1500000000, '2011-03-05', 'Comedy')
```

then the output in below. And this is nothing change in the made\_money table

✓ 8	10:15:08	DROP TRIGGER if exists atleast_money	0 row(s) affected	0.0014 sec
✓ 9	10:15:08	CREATE TRIGGER atleast_money BEFORE INSERT ON made_m...	0 row(s) affected	0.024 sec
✗ 10	10:15:08	#insert into made_money #values ('Most Welcome', #8000, '2012-...	Error Code: 1644. This value is not acceptable.	0.0013 sec

#question 5

```
DROP TRIGGER if exists divorcedate;
delimiter //
CREATE TRIGGER divorcedate
before INSERT ON divorced
FOR EACH ROW
BEGIN
IF
exists
(select*
from married
where married.couple_num=new.couple_num and new.day<married.day)
then
set new.day=(SELECT M.DAY FROM MARRIED M WHERE
M.COUPLE_NUM=NEW.COUPLE_NUM);
END IF;
END;
//
delimiter ;
```

g)

```
insert into divorced
values(6,'2004-01-01')
```

	COUPLE_NUM	DAY	
▶	2	2010-12-14	
	3	2013-08-26	
	4	2015-09-30	
	5	2015-09-28	
	6	2005-06-25	
	7	2005-01-01	
	8	1987-02-28	
	9	2015-10-02	

#question 6

```

DROP TRIGGER if exists logdata;
delimiter //
CREATE TRIGGER logdata
    AFTER INSERT ON made_money
    FOR EACH ROW
        insert into log_data
        values(new.movie,new.category)
    //
delimiter ;

```

	Movie	Category	
▶	IRON MAN	ACTION	
	speed	Comedy	
	NULL	NULL	