1.

delimiter //

create trigger q1\_insert

before insert on made\_money

for each row

begin

if new.category not in ('Romantic','Comedy','Drama','Action') then

set new.category = 'Aciton';

end if;

end;

//

delimiter //

create trigger q1\_update

before update on made\_money

for each row

begin

if new.category not in ('Romantic','Comedy','Drama','Action') then

set new.category = 'Action';

end if;

end;

//

delimiter //

create trigger q1\_insert

before insert on made\_money

for each row

begin

if new.category not in ('Romantic','Comedy','Drama','Action') then

set new.category = 'Aciton';

end if;

end;

//

delimiter ;

insert into made\_money values('IRON MAN', '1000000', '2008-05-02','ACTON');

drop trigger q1\_insert;

delimiter //

create trigger q1\_update

before update on made\_money

for each row

begin

if new.category not in ('Romantic','Comedy','Drama','Action') then

set new.category = 'Action';

end if;

end;

//

delimiter ;

update made\_money set made\_money.category = 'Horror'

where made\_money.movie = 'Fight Club';

drop trigger q1\_update;

2.

delimiter //

create trigger q2

before insert on appeared\_in

for each row

begin

if exists(select \* from made\_money m

where m.movie = new.movie and m.category = 'Comedy') and

not exists(select \* from appeared\_in a, made\_money mm

where a.movie = mm.movie and new.star = a.star and

mm.category in ('Romantic','Comedy','Drama'))

then update made\_money set category = 'Drama' where movie = new.movie;

end if;

end;

//

delimiter //

create trigger q2

before insert on appeared\_in

for each row

begin

if exists(select \* from made\_money as m

where m.movie = new.movie and m.category = 'Comedy') and

not exists(select \* from appeared\_in as a, made\_money as m1

where a.movie = m1.movie and new.star = a.star and

m1.category in ('Romantic','Comedy','Drama'))

then update made\_money set category = 'Drama' where movie = new.movie;

end if;

end;

//

delimiter ;

insert into appeared\_in values('Matt Damon','Bruce Almighty');

drop trigger q2;

3.

delimiter //

create trigger q3

before insert on married

for each row

begin

if exists(select \* from married m, in\_couple i1, in\_couple i2

where i1.star = i2.star and i1.couple\_num <> i2.couple\_num and

i1.couple\_num = m.couple\_num and i2.couple\_num = new.couple\_num

and m.day < new.day) and

(exists(select \* from divorced d1

where i1.couple\_num = d1.couple\_num and d1.day > new.day) or

not exists(select \* from divorced d2

where d2.couple\_num = i1.couple\_num))

then

signal sqlstate '45000'

set message\_text = 'error: married check failed';

end if;

end;

//

delimiter //

delete from married where couple\_num = 1;

//

delimiter //

create trigger q3

before insert on married

for each row

begin

if exists(select \* from married as m, in\_couple as i1, in\_couple as i2

where i1.star = i2.star and i1.couple\_num <> i2.couple\_num and

i1.couple\_num = m.couple\_num and i2.couple\_num = new.couple\_num

and m.day < new.day) and

(exists(select \* from divorced d1

where i1.couple\_num = d1.couple\_num and d1.day > new.day) or

not exists(select \* from divorced d2

where d2.couple\_num = i1.couple\_num))

then

signal sqlstate '45000'

set message\_text = 'error: married check failed';

end if;

end;

//

delimiter ;

insert into married values('1','2015-06-26');

drop trigger q3;

4.

delimiter //

create trigger q4

before insert on made\_money

for each row

begin

if (new.how\_much < 1000 and new.how\_much > 3000000000) then

signal sqlstate '45000'

set message\_text = 'error: must 1000 < box office < 3000000000';

elseif (new.Category = 'Action' and new.how\_much < 10000) then

signal sqlstate '45000'

set message\_text = 'error: action must > 10000';

elseif (new.Category = 'Comedy' and new.how\_much < 1000000000) then

signal sqlstate '45000'

set message\_text = 'error: comedy must < 1000000000';

end if;

end;

//

delimiter //

create trigger q4

before insert on made\_money

for each row

begin

if (new.how\_much < 1000 and new.how\_much > 3000000000) then

signal sqlstate '45000'

set message\_text = 'error: must 1000 < box office < 3000000000';

elseif (new.Category = 'Action' and new.how\_much < 10000) then

signal sqlstate '45000'

set message\_text = 'error: action must > 10000';

elseif (new.Category = 'Comedy' and new.how\_much > 1000000000) then

signal sqlstate '45000'

set message\_text = 'error: comedy must < 1000000000';

end if;

end;

//

delimiter ;

insert into made\_money values('Hangover',1500000000,'2011-03-05','Comedy');

drop trigger q4;

5.

delimiter //

create trigger q5

before insert on divorced

for each row

begin

if (exists(select \* from married m

where m.couple\_num = new.couple\_num and new.day < m.day))

then set new.day = (select day from married

where new.couple\_num = couple\_num);

end if;

end;

//

delimiter //

create trigger q5

before insert on divorced

for each row

begin

if (exists(select \* from married m

where m.couple\_num = new.couple\_num and new.day < m.day))

then set new.day = (select day from married

where new.couple\_num = couple\_num);

end if;

end;

//

6.

delimiter //

create trigger q6

after insert on made\_money

for each row

begin

insert into log\_data values (new.movie, new.category);

end;

//

Drop\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

drop trigger q1\_insert;

drop trigger q1\_update;

drop trigger q2;

drop trigger q3;

drop trigger q4;

drop trigger q5;

drop trigger q6;