On delete cascade and on update cascade

1. Cascade can be used on tables having primary key.
2. While creating a table, add ON DELETE or ON UPDATE or both for the second table.
3. Now , delete/ update the PK of the 1st table, so that cascading effect will be visible on 2nd table as well.
4. If ON DELETE or ON UPDATE or both is not used while creating the second table, then you directly cannot delete/ update the second table’s tuples using direct Delete/Update command.
5. For this, you should first delete the foreign key constraint, then delete the actual column.

Table -1

create table emp (eid int primary key, ename varchar(20));

table -2

create table project (pid int primary key, pname varchar(20), eid int, foreign key (eid) references emp (eid) on delete cascade);

insert the VALUES

insert into emp values(1,"surya");

Query OK, 1 row affected (0.40 sec)

mysql> insert into emp values(2, "sindhu");

Query OK, 1 row affected (0.27 sec)

mysql> insert into emp values(3,"niki");

Query OK, 1 row affected (0.12 sec)

mysql> insert into project values(10,"deeplearning",1);

Query OK, 1 row affected (0.24 sec)

mysql> insert into project values(20,"deep",2);

Query OK, 1 row affected (0.15 sec)

mysql> insert into project values(30,"deep1",3);

Query OK, 1 row affected (0.18 sec)

delete from emp where eid=1; (THIS IS FOR ON CASCADING)

O/P:

mysql> select \* from project;

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

| pid | pname | eid |

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

| 20 | deep | 2 |

| 30 | deep1 | 3 |

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

Command for both on delete cascade and on update cascade

create table proj (pid int primary key, pname varchar(20), eid int, foreign key (eid) references emp (eid) on delete cascade on update cascade);

update emp set eid = 5 where eid= 1;

O/P

mysql> select\* from proj;

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

| pid | pname | eid |

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

| 1000 | AAAA | 5 |

| 2000 | BBBB | 2 |

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

2 rows in set (0.00 sec)

mysql> select\* from emp;

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

| eid | ename |

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

| 2 | sindhu |

| 3 | niki |

| 4 | manju |

| 5 | surya |

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

To drop the colums, if there is a constraint on the column

First Drop the FK Constraint, thenj drop the column

mysql> desc project;

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

| Field | Type | Null | Key | Default | Extra |

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

| PID | int | NO | PRI | NULL | |

| Deadline | date | YES | | NULL | |

| DID | int | YES | MUL | NULL | |

| EID | int | YES | MUL | NULL | |

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

4 rows in set (0.19 sec)

mysql> ALTER TABLE project DROP FOREIGN KEY project\_ibfk\_2;

Query OK, 0 rows affected (2.86 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table project drop column eid;

Query OK, 0 rows affected (2.79 sec)

Records: 0 Duplicates: 0 Warnings: 0