**Referential Integrity Constraint**

* Ka bhi .. Jb References Table saa Record **DELETE ho**  to **2nd Table par kyaa Action Perform ho.**

1. **On delete/update department,gender 🡪 employee Records Should Deleted / updated.**
2. **On delete/update department,gender 🡪 employee Record Not Deleted / Updated | only department Delete/updated.**
3. **(by Default) On delete department,gender 🡪 restrict User to Not Delete Department**

🡪 Child Table 🡪 Delete kr sktaa ho (employee , customer)

🡪 But Parent Delete nhin ho sktaa (department , Gender)

**4 Action**

1. **Cascade :**  When ***GENDER*** table is Update/Delete then ***CORRESPONDING ROW \_ CUSTOMER***  also be Updated/deleted

create table gender(

id int primary key, gender varchar(25)

)

insert into gender values (1,'Male'),(2,'Female'),(3,'Others')

select \* from gender

--\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cascade on DElete, Update \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

create table customer(

cId int primary key,

name varchar(25),

//\_\_\_ reference \_\_\_

genderId int constraint cns\_genderId\_casce foreign key references gender(id) on delete cascade on update cascade

)

insert into customer values (1,'saqib',1),(2,'Sajid',1),

(3,'Humara',2),(4,'Amnaa bebe',2),(5,'Aysaa bebe',2)

select \* from customer

select \* from gender

--\_\_\_\_\_\_\_\_\_ delete Gender \_\_\_\_\_\_\_

delete gender where id = 1

--\_\_\_ on delete gender \_\_\_

--customer me jhan jahn gender\_id = 1 the wo saraa record delete ho gy

1. **No Action (by Default):** When ***GENDER*** table is Update/Delete then ***ERROR\_Occures -> its referece to other table . can not delete.***

* *Ya default hoti ha ---- jb hum gender delete krain to --🡪 error show hotaa ha*

1. **Set null :** When ***Gender*** table is Update/Delete then ***CORRESPONDING ROW \_ Customer (gender\_id)***  will Set as **Null** Value.

create table gender(

id int primary key, gender varchar(25)

)

insert into gender values (1,'Male'),(2,'Female'),(3,'Others')

delete gender

select \* from gender

--\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Set Null on Delete, Update \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

create table customer1(

cId int primary key,

name varchar(25),

genderId int constraint cns\_genderId\_casce foreign key references gender(id) on delete set null on update set null

)

insert into customer1 values (1,'Sajid',1),(2,'saqib',1) , (3,'noman',1),(4,'Humara',2),(5,'Amna',2),(6,'Aysaa',2)

--id name gendrId (cascade)

--1 saqib 1

--2 Sajid 1

--3 Humara 2

--4 Amnaa bebe 2

--5 Aysaa bebe 2

select \* from customer1

select \* from gender

--\_\_\_\_\_\_\_\_\_ delete Gender \_\_\_\_\_\_\_

delete gender where id = 1

--\_\_\_ on delete gender \_\_\_

--customer me jhan jahn gender\_id = 1 the wo ids == null ho gain ge

--1 Sajid NULL

--2 saqib NULL

--3 noman NULL

--4 Humara 2

--5 Amna 2

--6 Aysaa 2

1. **Set Default :** When ***ORDERS*** table is Update/Delete then ***CORRESPONDING ROW \_ ORDER\_ITEM***  will Set as **default value** of Constraints.

* Jo value constraint par Default ho ge 🡪 wo set ho gy gee