**Foreign Key ON DELETE Operations in MySQL**

**1: ON DELETE CASCADE**

**FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id) **ON DELETE CASCAD**

**(**primary valued delete করে দিলে এই value যেখানে references key হিসাবে ব্যবহার করা হয়েছে । সব জায়গা থেকে delete হয়ে যাবে।

**1: ON DELETE SET NULL**

**FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id) **ON DELETE SET NULL**

**2: ON DELETE RESTRICT**

**FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id) **ON DELETE RESTRICT**

**3: ON DELETE NO ACTION**

**FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id) **ON DELETE NO ACTION**

**4: ON DELETE SET DEFAULT**

**FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id) **ON DELETE SET DEFAULT**

**Setting a Custom Comment for Foreign Key Constraints**

**CREATE TABLE** Employees (

emp\_id **INT PRIMARY KEY,**

emp\_name **VARCHAR(50),**

dept\_id **INT,**

**CONSTRAINT** fk\_dept\_id\_restrict **FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id)

**ON DELETE** **RESTRICT COMMENT** 'Restricts deletion of Departments if related Employees exist'

);

**CREATE TABLE** Employees (

emp\_id **INT PRIMARY KEY**,

emp\_name **VARCHAR(50),**

dept\_id **INT,**

**CONSTRAINT** fk\_dept\_id\_no\_action **FOREIGN KEY** (dept\_id) **REFERENCES** Departments(dept\_id)

**ON DELETE NO ACTION COMMENT** 'Prevents deletion of Departments if related Employees exist'

);

**Querying Constraint Comments**

**SELECT CONSTRAINT\_NAME,**

**CONSTRAINT\_COMMENT**

**FROM** information\_schema.**TABLE\_CONSTRAINTS**

**WHERE TABLE\_NAME** = 'Employees';