**CASADE**

CREATE DATABASE company\_demo;

USE company\_demo;

**-- Parent table**

CREATE TABLE departments (

dept\_id INT PRIMARY KEY,

dept\_name VARCHAR(100)

);

**-- Child table**

CREATE TABLE employees (

emp\_id INT PRIMARY KEY,

emp\_name VARCHAR(100),

dept\_id INT,

CONSTRAINT fk\_dept

FOREIGN KEY (dept\_id)

REFERENCES departments(dept\_id)

ON DELETE CASCADE

ON UPDATE CASCADE

);

**-- Insert data**

INSERT INTO departments VALUES (1, 'HR'), (2, 'Engineering');

INSERT INTO employees VALUES

(101, 'Alice', 1),

(102, 'Bob', 2);

**-- DELETE CASCADE:**

DELETE FROM departments WHERE dept\_id = 1;

**-- UPDATE CASCADE:**

UPDATE departments SET dept\_id = 22 WHERE dept\_id = 2;

**SET NULL**

DROP TABLE employees;

CREATE TABLE employees (

emp\_id INT PRIMARY KEY,

emp\_name VARCHAR(100),

dept\_id INT,

CONSTRAINT fk\_dept

FOREIGN KEY (dept\_id)

REFERENCES departments(dept\_id)

ON DELETE SET NULL

ON UPDATE SET NULL

);

-- Insert again

INSERT INTO departments VALUES (3, 'Marketing');

INSERT INTO employees VALUES (103, 'Charlie', 3);

-- DELETE SET NULL

DELETE FROM departments WHERE dept\_id = 3;