

LET'S START WITH SQL :)

Foreign Key

id	Name	course_id
1	Rahul	100
2	Raj	101
3	Riti	102

Student

Base/referenced/parent table

course_id	name	teacher	id
100	Hindi	Ram	1
101	Maths	Mohan	2
102	English	Priya	3

Course

Refrencing/child table

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Foreign Key

Foreign key helps to perform operations related to the parent table, such as joining tables or ensuring referential integrity.

Query :

```
CREATE TABLE childtableName (  
  childId INT PRIMARY KEY,  
  baseId INT,  
  FOREIGN KEY (baseId) REFERENCES baseTableName(baseId)  
);
```

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Cascading in Foreign Key

Cascading are a set of rules which dictate what actions should be taken automatically when a referenced row in the parent table is modified or deleted.

1.CASCADE: If a row in the parent table is updated or deleted, all related rows in the child table will be automatically updated or deleted.

2.SET NULL: If a row in the parent table is updated or deleted, all corresponding foreign key values in the child table will be set to NULL.

3.RESTRICT or NO ACTION: Blocks the modification or deletion of a referenced row in the parent table if related rows exist in the child table, thus maintaining referential integrity.

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Cascading in Foreign Key

These cascading actions help maintain the integrity of the data across related tables in the database.

1.ON DELETE CASCADE

2.ON UPDATE CASCADE

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Cascading in Foreign Key

1. ON DELETE CASCADE : The ON DELETE CASCADE clause indicates that if a row in the parent table (parent_table) is deleted, all corresponding rows in the child table (child_table) will be automatically deleted as well.

QUERY:

```
CREATE TABLE childtableName (  
  childId INT PRIMARY KEY,  
  baseId INT,  
  FOREIGN KEY (baseId) REFERENCES baseTableName(baseId)  
  ON DELETE CASCADE  
);
```

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Cascading in Foreign Key

2. **ON UPDATE CASCADE** : The ON UPDATE CASCADE clause indicates that if a row in the parent table (parent_table) is updated, all corresponding rows in the child table (child_table) will be automatically updated as well.

QUERY :

```
CREATE TABLE childtableName (  
  childId INT PRIMARY KEY,  
  baseId INT,  
  FOREIGN KEY (baseId) REFERENCES parenttableName(childId)  
  ON UPDATE CASCADE  
);
```