# Foreign Key

- A foreign key in one table points to a primary key in another table.
- A foreign key can have a different name than the primary key it comes from.
- foreign key is used to create relationship between two tables.
- foreign key value can be null.
- Thus an attribute which work as a primary key in an other table, can work as foreign key in that table.

Ex

PK   Person table                    order table ✓ FK

| Person-id | Name | Age |
|-----------|------|-----|
| 1 | Ajay | 34 |
| 2 | Amit | 35 |
| 3 | Anil | 36 |
| 4 | A Kash | 37 |

| order id | orderno | Person-id |
|----------|---------|-----------|
| 101 | 321 | 3 |
| 102 | 322 | 2 |
| 103 | 323 | 2 |
| 104 | 324 | 1 |

Here Person-id in table Person is Primary Key and Person-id in table order work as foreign Key. Table person will be treated as Parent table and order table is refered as child table.

Note :-

① Records cannot be inserted into a child table if corresponding record in the parent table does not exist.

② Record of a parent table cannot be deleted if corresponding record in the child table actually exist.

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