**JOINS**

**Joins** are fundamental operation in relational databases that allow us to combine data from multiple tables based on a common column.

They are essential for querying and analysing data efficiently.

**LEFT JOINS**

The **left join** is a type of join operation in relational databases that combines rows from two tables based on a matching condition, as well as includes all the unmatched rows from the left (or first) table.

The left join is particularly useful when you want to retrieve data from the left table and include matching data from the right table if it exists.

**For Example:**

* Google Pay

In Google Pay, customer details will be stored in one table and UPI details will be stored in another table.

One customer can have multiple UPI and multiple bank accounts. So, we need left join.

TABLE 1

CUSTOMER DETAILS

|  |  |  |
| --- | --- | --- |
| ID | Name | Age |
| Cust1 | Adil Mohamed | 22 |

TABLE 2

UPI DETAILS

|  |  |  |
| --- | --- | --- |
| Cust ID | UPI ID | Bank |
| Cust1 | vz@oksbi | sbi |
| Cust2 | at@okhdfc | hdfc |
| Cust1 | adl@pnb | pnb |

If we observe then we can see cust1 has 2 UPI Ids.