Basic CRUD: (create, read, update, delete):

* Create:

|  |
| --- |
| CREATE TABLE parents (  parent\_id INT PRIMARY KEY,  name VARCHAR(100)  ); |

Create table <name> and declare all the collums

* Read:

|  |
| --- |
| select first\_name,last\_name from Employees where first\_name="John"; |

Select <collum\_name\_1>, <collum\_name\_2>, from <table> where <collum\_name\_x>=”…”;

(the where can refer to another column in the table)

* Update:

Insert:

|  |
| --- |
| INSERT INTO table\_name (column1, column2, ...)  VALUES (value1, value2, ...); |

Update:

|  |
| --- |
| UPDATE table\_name  SET column1 = value1, column2 = value2  WHERE condition; |

Alter:

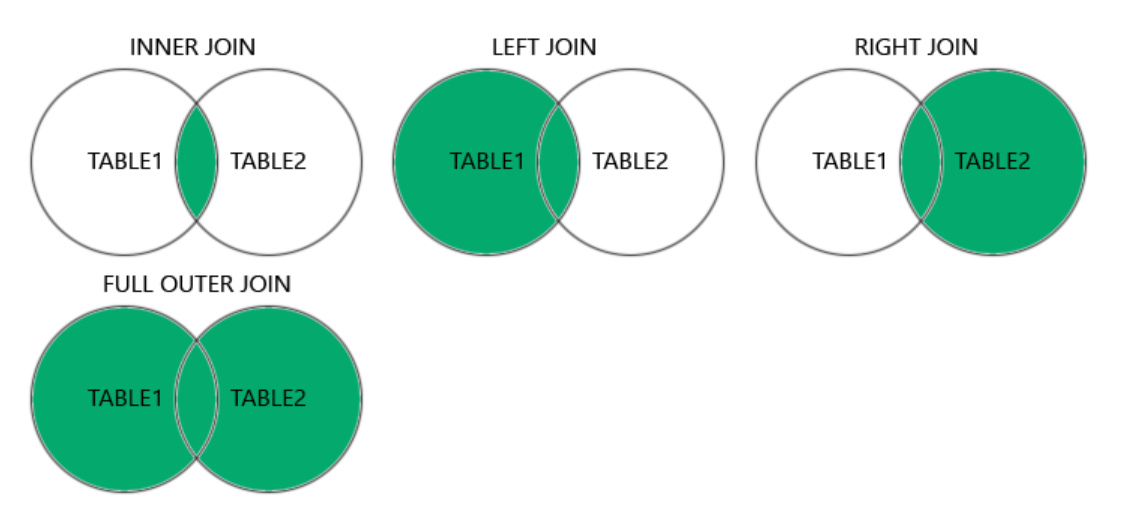
|  |
| --- |
| ALTER TABLE table\_name ADD column\_name datatype;  ALTER TABLE table\_name MODIFY column\_name new\_datatype; |

Update is used to change values while Alter is used to change column

* Delete:

|  |
| --- |
| DELETE FROM table\_name WHERE condition; #delete data  DROP TABLE table\_name; # delete a table |

Join: (inner, left, right, outer)



* Inner join: return only matches from both
* Left join: return matches from both and all not matches from left table only
* Right join: return matches from both and all not matches from right table only
* Outer (full) join: return all matches from both and all not matches from both

Check out: <https://joins.spathon.com/>

Examples:

|  |
| --- |
| SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate  FROM Orders  INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID; |

SELECT collumns (from either table)

FROM left\_table

<join\_type> JOIN right\_table ON left\_foreign\_key=right\_foreign\_key