

Commands

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Create database:

```
CREATE DATABASE <name>;
```

Create Table:

```
CREATE TABLE customer
(
    "ID" int8 PRIMARY KEY,
    "Name" varchar(50) NOT NULL,
    "Age" int NOT NULL,
    "City" char(50),
    "Salary"

);

CREATE TABLE cust(
    "EID" int2 NOT NULL UNIQUE,
    "NAME" varchar(10) NOT NULL,
    "SALARY" numeric(7,2) NOT NULL,
    "DOJ" date NOT NULL,
    "PHONE" numeric(10) NOT NULL UNIQUE
);
```

View all contents of table:

```
SELECT * FROM <table_name>
```

Inserting data into Table:

```
INSERT INTO customer(
    "ID", "Name", "Age", "City", "Salary") #columnar values
VALUES
(1, "Sam", 26, "Delhi", 9000),
(2, 'Ram', 19, 'Bangalore', 11000),
(3, 'Pam', 31, 'Pune', 6000),
(4, 'Jam', 42, 'Mumbai', 10000);
```

```
INSERT INTO cust(
    "EID", "NAME", "SALARY", "DOJ", "PHONE")
VALUES
(1, 'A', 10000, '20-JUN-20', 9876543210),
(2, 'B', 20000, '20-JUN-19', 9876543222),
(3, 'C', 35000, '01-JAN-18', 9876543333),
(4, 'D', 50000, '01-OCT-20', 9876511111);
```

```
INSERT INTO cust(
    "EID", "NAME", "SALARY", "DOJ", "PHONE")
VALUES
(6, 'c', 40000, '01-JAN-25', 6449411544);
```

ERROR: duplicate key value violates unique constraint "cust_EID_key"

If we try to insert like below column value with double quotes throwing an error

ERROR: column "B" does not exist

LINE 4: (9,"B",40000,'01-JAN-25',8449411544);

Updating a value in a row:

```
UPDATE customer
SET "Name" = 'Xam', "Age" = 36
WHERE "ID" =4;
```

Delete values from a table:

```
DELETE FROM customer
WHERE "ID"=5;
```

Alter table (updating/dropping column):

```
ALTER TABLE customer
ADD COLUMN TEST char(5);
```

Note: If you add new column to the existing table all default values are NULL

```
ALTER TABLE customer
DROP COLUMN "test";
```

```
ALTER TABLE customer
ALTER COLUMN "test" TYPE varchar(10);
```

Note: altering the datatype of the column "test"

```
ALTER TABLE customer
RENAME COLUMN "test" TO "TEST";
```

Note: changing the column name

Data Output

Messages

Notifications

PROJECTION

"It is a process of retrieving the data by selecting only the columns is known as Projection "

```
SELECT "NAME" FROM cust; # first from clause will run and then select
```

```
SELECT "NAME","PHONE" FROM cust;
```

```
SELECT "DOJ","NAME","PHONE" FROM cust; # we can retrieve in any order we want
```

DISTINCT Clause

" It is used to remove the duplicate or repeated values from the Result table " .

```
SELECT DISTINCT "NAME" FROM cust;
```