# SQL => Structured Query Larguage.

-> De darative Language on non-procedural Language.

Procedural Language

Non-Procedural Language.

-> User has to tell both why & how to do it.

-> User her to tell what to do & need not worry about how to do it.

-> C, C++, Java etc.

-> SQL, LISP etc.

-> It is based on concepts from Set theory.

## SQL features

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DDL (Data Definition Language)

Deals with Schema

- CREATE
- ALTER
- DROP
- TRUNCATE

DML (Data Manipulation Language)

Deals with Data inside Tables

- SELECT
- DELETE
- INSERT
- UPDATE

2. Defining views on the database.

3. Specifying sewing and authorization.

4. Specifying transaction controls.

#### SQL Scheme

- The isolatified by a scheme name and it includes an authorization identifier to identify the user or account who owns the scheme, as well as the descriptors for each element in the scheme.
- -? Scheme elements could include tables, types, constraints, views, domains, indexes etc.

We can create a scheme using below command.

Create schema schema-name Authorization vur-name;

Not all vers are authorized to create schemes and scheme elements.

### Catalog

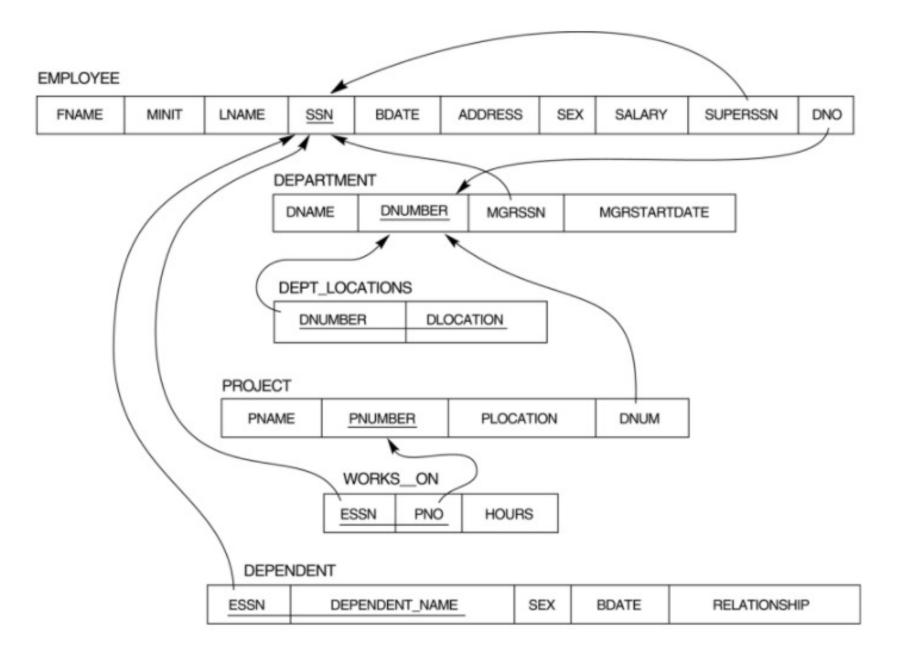
→ It is a named collection of schemes.

→ When db is installed, default environment & scheme is created, so that when a user logs in , he she can directly refer to tables & other elements, without having to specify a particular scheme name.

#### INFORMATION\_SCHEMA

A cotalog always contains a special scheme called information scheme, which provides information on all the schemes in the catalog & all the element descriptor in them.

How to set newly created rehema to use? SET search-path TO schema-name;



#### DDL Commands

Create table table-name (
attribute 1-name detatype,
attribute 2-name detatype,
attribute 3-name detatype,
attribute n-name detatype