

Introduction To SQL

Standard Guidelines

- Highly Interactive
- 0 - Not Clear, Repeat [-ve]
- 1 - Clear, Done [+ve]
- I'll not allow you to unmute randomly.
- Raise the hand.
- Till 11 or 11:15PM we will learn new things, after that we will be having open mic.
- GITHUB Link. [Every Lecture Notes]
- .sql File [having query written].

GITHUB Link

MySQL Workbench -
AFTER 10:45

https://www.w3schools.com/sql/trysql.asp?filename=trysql_select_all

<https://dev.mysql.com/doc/refman/8.4/en/>

What is DATA?

- Collection of Fact [Structure Format]
- 21st Century, Data is the new oil.
- Data is all about Knowledge which can produce Money.

Investors

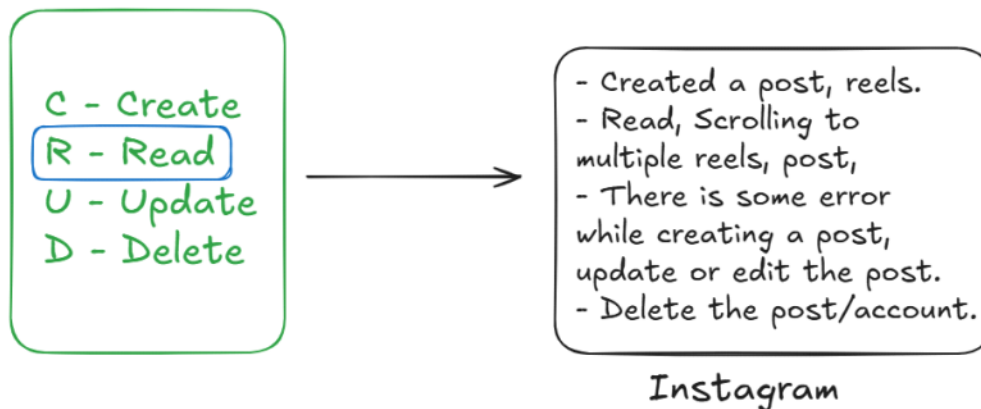
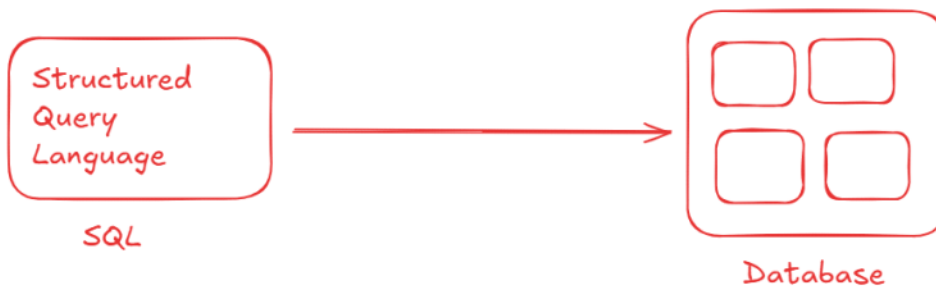
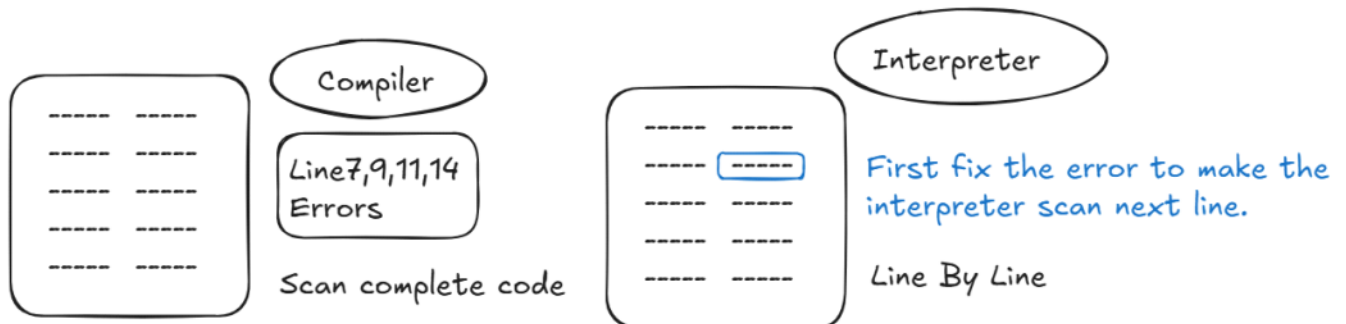
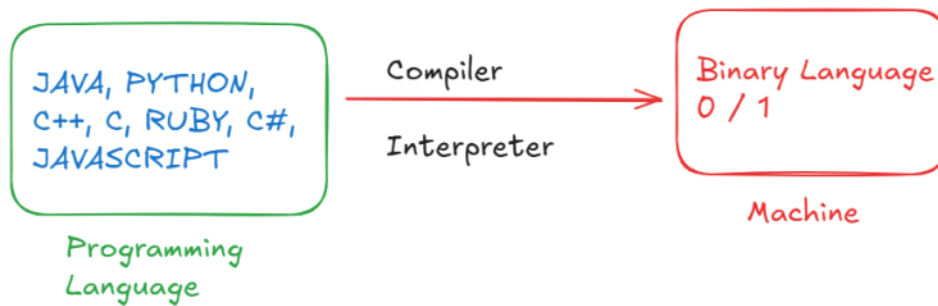


[Data]

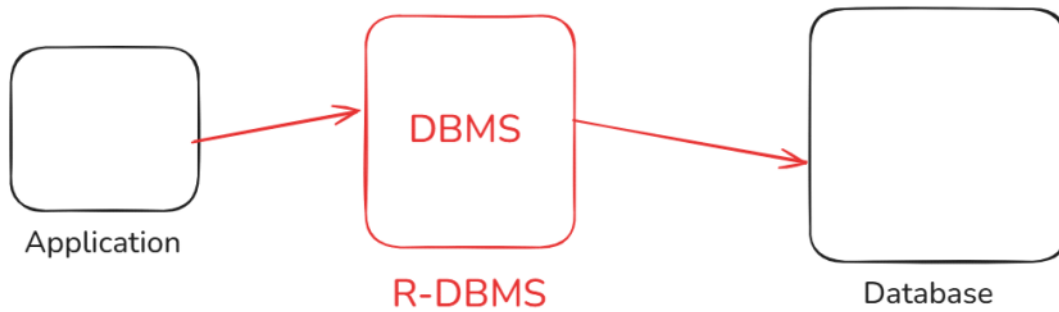
Reward based system.
Rewarding to whom, Credit Card User.
When you pay bills on time.

What is Language - It is just a communication between 2 people.

We need to pass an instruction to a machine to do some work?



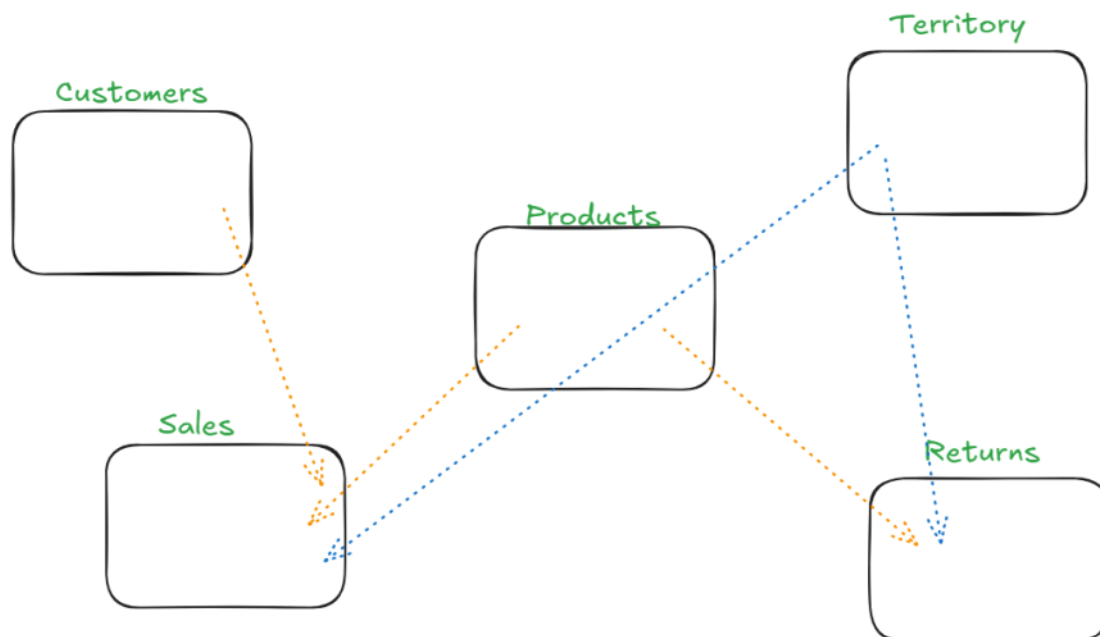
Tablenames	Records
<u>Customers</u>	91
<u>Categories</u>	8
<u>Employees</u>	10
<u>OrderDetails</u>	518
<u>Orders</u>	196
<u>Products</u>	77
<u>Shippers</u>	3
<u>Suppliers</u>	29



- MySQL
- SQLite
- PostgreSQL
- Oracle

Customers	Products	Sales
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Venn - Diagram

-> It is just a use of JOINS to connect multiple table via primary Key & Foreign Key.

SELECT * **FROM** Orders;

Read All Columns Table Name

→ SELECT, FROM - Reserved Keywords [Pre Defined Keyword]

→ * [All Columns] + Orders -> User Defined.

Never Give User Defined Values with reserved Keywords

```
SELECT * FROM Orders;
```

```
-- I want to read all the columns from Orders Table.
```

```
SELECT CustomerName,Address,City,Country FROM Customers;
```

Number of Records: 91

CustomerName	Address	City	Country
Alfreds Futterkiste	Obere Str. 57	Berlin	Germany
Ana Trujillo Emparedados y helados	Avda. de la Constitución 2222	México D.F.	Mexico
Antonio Moreno Taquería	Mataderos 2312	México D.F.	Mexico
Around the Horn	120 Hanover Sq.	London	UK
Berglunds snabbköp	Berguvsvägen 8	Luleå	Sweden
Blauer See Delikatessen	Forsterstr. 57	Mannheim	Germany
Blondel père et fils	24, place Kléber	Strasbourg	France

```
SELECT      Filter[Column]
            COLUMN1, COLUMN2, ....,
FROM TableName
WHERE
Specific_condition_
to_apply_filter_on_rows
```

Applying Filter on Rows

WHERE CLAUSE

```
SELECT CustomerName,Address,City,Country FROM Customers
WHERE Country = "Germany";
```

Challenge 1

```
SELECT ProductName , Price FROM Products
WHERE Price > 50;
```

Number of Records: 7

ProductName	Price
Mishi Kobe Niku	97
Carnarvon Tigers	62.5
Sir Rodney's Marmalade	81
Thüringer Rostbratwurst	123.79
Côte de Blaye	263.5
Manjimup Dried Apples	53
Raclette Courdavault	55

MySQL - Workbench & Command Line

<https://dev.mysql.com/downloads/installer/>

MySQL Installer 8.0.42

Note: MySQL 8.0 is the final series with MySQL Installer. As of MySQL 8.1, use a MySQL product's MSI or Zip archive for installation. MySQL Server 8.1 and higher also bundle MySQL Configurator, a tool that helps configure MySQL Server.

Select Version:

8.0.42

Select Operating System:

Microsoft Windows

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.42.0.msi)	8.0.42	2.1M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.42.0.msi)	8.0.42	353.7M	Download