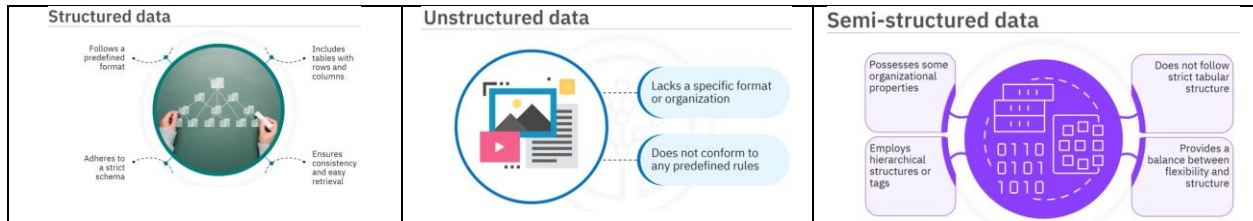


## Data Engineering Day 04

The credit for this course goes to Coursera. [Click More](#)

Another link : [Azure data Engineer](#)

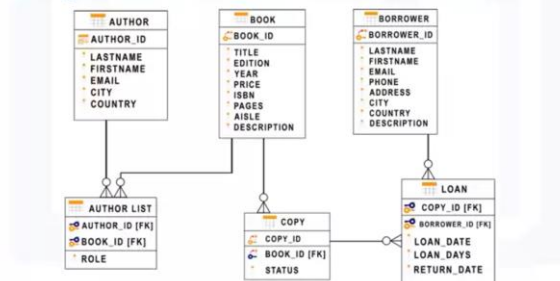
### Introduction of Relational Databases (RDBMS).



The figure below shows a simple example of entities and its attributes. A book is taken as an entity and author and copy as an attribute.

### Simplified Library ER Diagram

Each entity becomes a table in the database

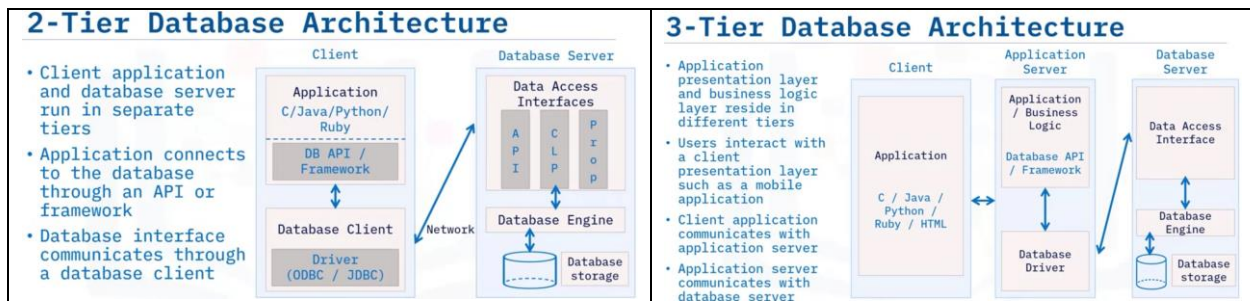


### Demonstrations of Data types

## What are data types?



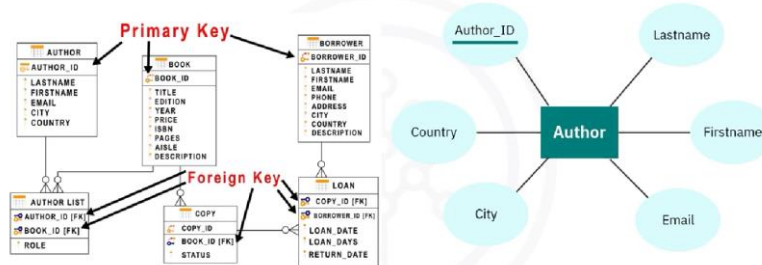
Title	Publish date	Pages
Lean Software Development	2003-05-18	240
SQL Cookbook	2005-12-01	595
Scientific Computing	2001-07-17	576



*Important but we neglect it many a times.*

- Implementing a primary key constraint ensures that each record in the database table is uniquely identified, maintaining data integrity, and facilitating efficient data retrieval.

## Create a table



**Primary Key: Uniquely Identifies each Row in a Table**

### Exercise 2: Create and load data in the table using an SQL script file

In this exercise, you will learn how to create and load data into a table by running a script containing the CREATE and INSERT SQL commands.

- Download the script file to your computer:
  - [BookShop-CREATE-INSERT.sql](#)
- Open the script file using a notepad or any text editor.
  - Copy the contents of the script file and paste it in the dataset text area
  - Select Submit query

5 rows

- column - =

[Apply](#)

[View and edit SQL](#)

This data as [json](#), [CSV](#) ([advanced](#))

Suggested facets: [SALEDATE](#) (date)

Show charting options

Link	rowid	ID	ANIMAL	SALEPRICE	SALEDATE	QUANTITY
1	1	1	Cat	450.09	2018-05-29	9
2	2	2	Dog	666.66	2018-06-01	3
3	3	3	Parrot	50.0	2018-06-04	2
4	4	4	Hamster	60.6	2018-06-11	6
5	5	5	Goldfish	48.48	2018-06-14	24

**Advanced export**

JSON shape: [default](#), [array](#), [newline-delimited](#)

CSV options: ☐ download file [Export CSV](#)

```
CREATE TABLE [PETSHOP] (
  [ID] integer,
  [ANIMAL] text,
  [SALEPRICE] real,
```

