

Create Data Dictionary

Databases

Day 3

Learning Objectives

- ▶ **Learn the basics of Data Dictionary**
- ▶ **Learn how to construct data dictionary information for database tables**

What is Data Dictionary?

- ▶ It is a collection of definitions and data types of the database columns in a database

Why The Need for Data Dictionary?

- ▶ One purpose of data dictionary is to provide consistency and understanding of common data

What Constitutes Data Dictionary?

- ▶ **Attribute Name**
- ▶ **Description**
- ▶ **Data Type**
- ▶ **Constraint**
- ▶ **Null Value**

Example of Data Dictionary

Book

Attribute	Description	Data Type	Constraint	Null Value
ISBN	Unique identifier of each book	char(10)	Primary Key	No
Title	Title of book	varchar(200)		No

BookCopy

Attribute	Description	Data Type	Constraint	Null Value
ISBN	Reference key into Book relation, part of primary key	char(10)	Primary Key Foreign Key -> Book (ISBN)	No
CopyNo	Identifies copy of each book title, part of primary key	int	Primary Key	No
DateIn	Date that book copy arrived at the company	datetime		No
RentalRate	Rental rate of book copy	smallmoney		No
Status	Status to indicate whether book copy is missing or damaged	char(30)		Yes