

# Advanced Data Modeling

## 7DTSR

# Advanced Data Modeling - 7DTSR

## O que veremos nesta disciplina:

- Contexto "sócio-tecno-econômico" dos dados
- Arquiteturas de Solução de DW, DL e LH
- Bancos de Dados
  - Tipos de Dados
  - Tipos de Bancos de Dados
- Modelagem de dados estruturados
  - Modelagem relacional
  - Modelagem dimensional
- Modelagem de dados não estruturados
  - Modelagem chave e valor
  - Modelagem de documentos
  - Modelagem de grafos
  - Modelagem colunar

## Avaliação:

- Trabalhos práticos em sala de aula
- Entrega no Portal FIAP até a aula seguinte.

# Lourenço Taborda

Arquiteto de Solução

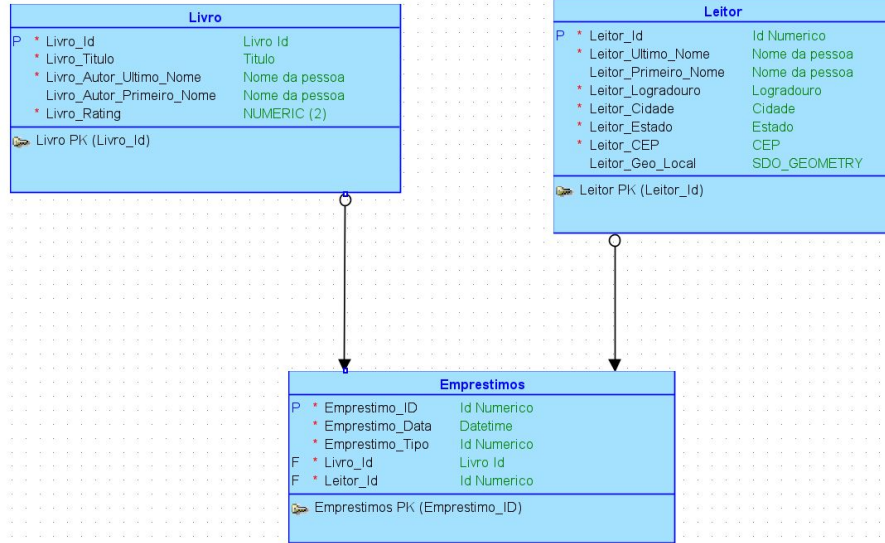


<https://linktr.ee/devtbd>

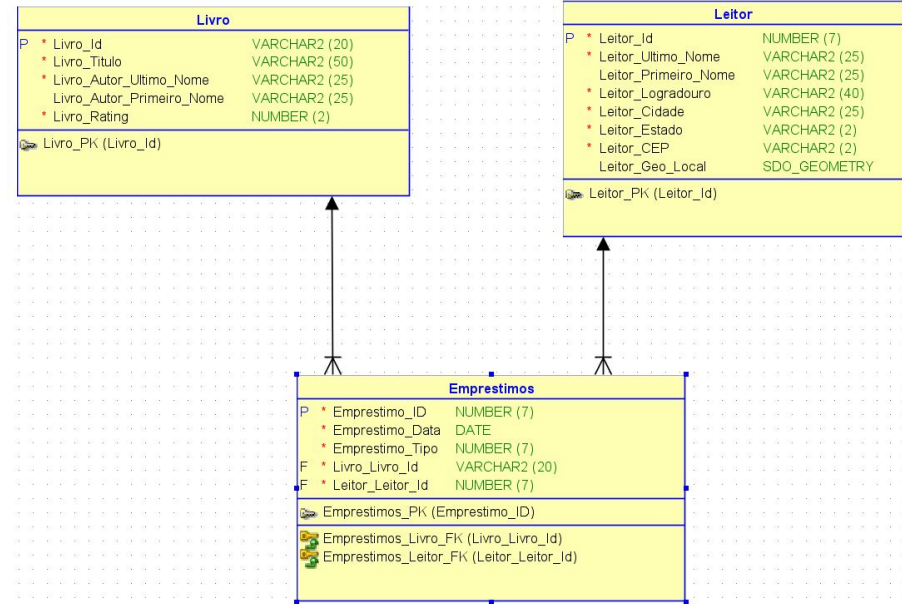




# Nosso primeiro modelo de dados

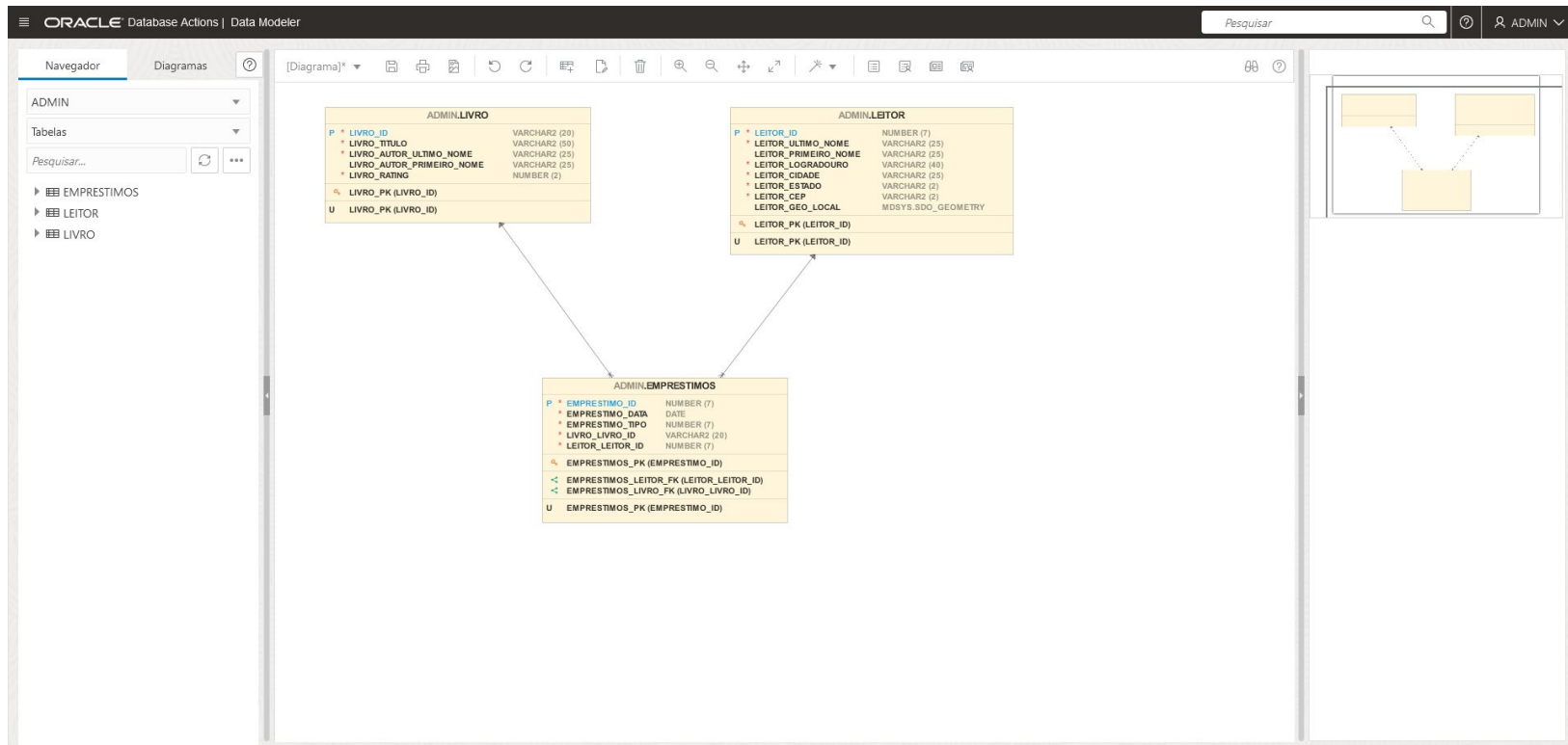


Modelo Lógico



Modelo Físico

# Nosso primeiro modelo de dados EM PRODUÇÃO!



# Adicione domínios

Name	Logical Type	Other Information
Person Name	VARCHAR	Size: 25
Address Line	VARCHAR	Size: 40
City	VARCHAR	Size: 25
State	VARCHAR	Size: 2
Zip	VARCHAR	Size: 10
Book Id	VARCHAR	Size: 20
Numeric Id	NUMERIC	Precision: 7, Scale: 0
Title	VARCHAR	Size: 50

# Entidade Livro

Name	Datatype	Other Information and Notes
book_id	Domain: Book Id	Primary UID (unique identifier). (The Dewey code or other book identifier.)
title	Domain: Title	M (mandatory, that is, must not be null).
author_last_name	Domain: Person Name	M (mandatory, that is, must not be null).
author_first_name	Domain: Person Name	(Author's first name; not mandatory, but enter it if the author has a first name.)
rating	Logical type: NUMERIC (Precision=2, Scale=0)	(Librarian's personal rating of the book, from 1 (poor) to 10 (great).)



# Entidade Leitor

Attribute Name	Type	Other Information and Notes
patron_id	Domain: Numeric Id	Primary UID (unique identifier). (Unique patron ID number, also called the library card number.)
last_name	Domain: Person Name	M (mandatory, that is, must not be null). 25 characters maximum.
first_name	Domain: Person Name	(Patron's first name.)
street_address	Domain: Address Line	(Patron's street address.)
city	Domain: City	(City or town where the patron lives.)
state	Domain: State	(2-letter code for the state where the patron lives.)
zip	Domain: Zip	(Postal code where the patron lives.)
location	Structured type: SDO_GEOMETRY	Oracle Spatial and Graph geometry object representing the patron's geocoded address.

# Entidade Transações

Attribute Name	Type	Other Information and Notes
transaction_id	Domain: Numeric Id	Primary UID (unique identifier). (Unique transaction ID number)
transaction_date	Logical type: Datetime	M (mandatory, that is, must not be null). Date and time of the transaction.
transaction_type	Domain: Numeric Id	M (mandatory, that is, must not be null). (Numeric code indicating the type of transaction, such as 1 for checking out a book.)