

Industry Theme: Business

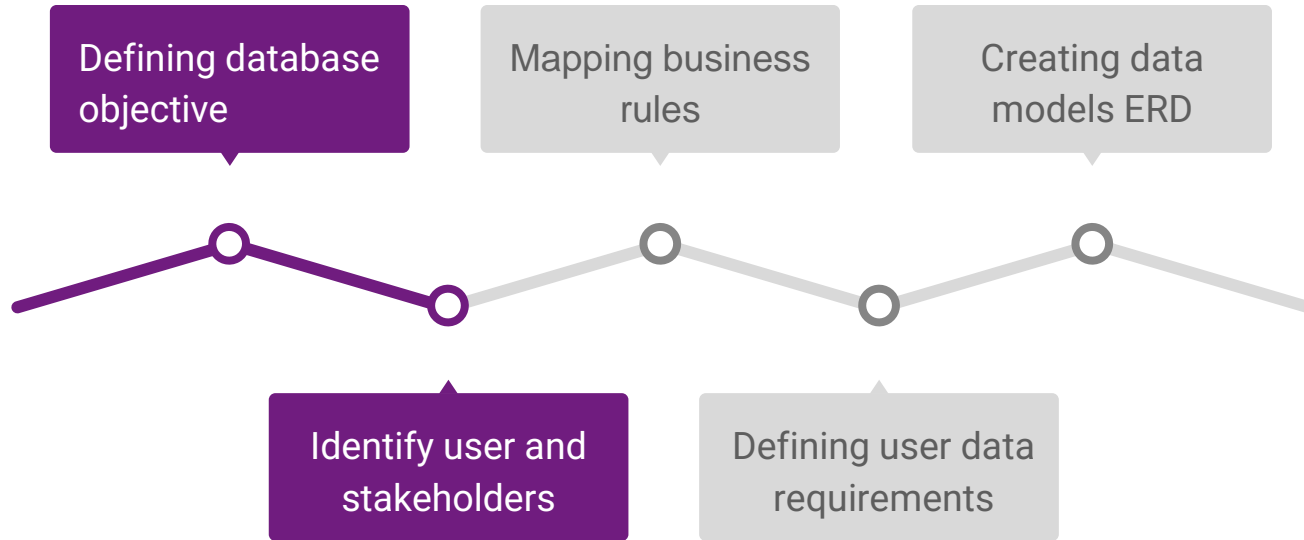
# Online Bookstore Database

Alternative Assessment 1- Database WIA2001

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# Database Design Process

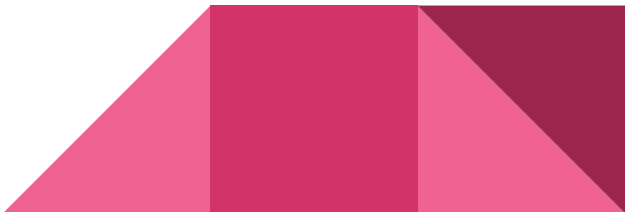


# Business Rules

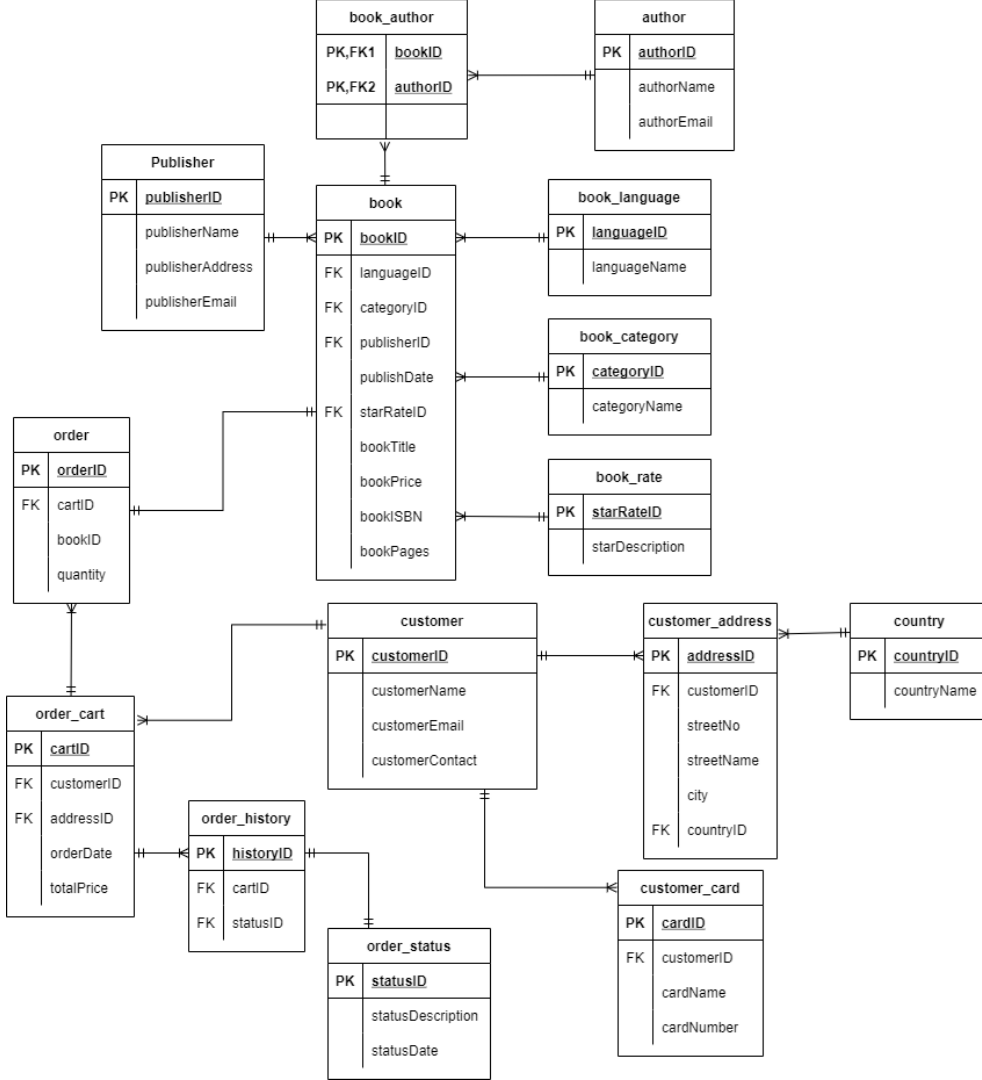


# Entity Relationship Diagram ERD

## Tables and attributes

- **book** (bookID, languageID, categoryID, bookTitle, bookPages, bookISBN, publisherID, publishDate, starRateID, bookPrice)
  - **book\_language** (languageID, languageName)
  - **book\_category** (categoryID, categoryName)
  - **book\_rate** (starRateID, starDescription)
  - **book\_author** (bookID, authorID)
  - **author** (authorID, authorName, authorEmail)
  - **publisher** (publisherID, publisherName, publisherAddress, publisherEmail)
  - **customer** (customerID, customerName, customerEmail, customerContact)
  - **customer\_address** (addressID, customerID, streetNo, streetName, city, country\_id)
  - **country** (countryID, countryName)
  - **customer\_card** (cardID, customerID, cardName, cardNumber)
  - **order** (orderID, bookID, quantity)
  - **order\_cart** (cartID, orderDate, customerID, addressID, totalPrice)
  - **order\_history** (historyID, cartID, statusID)
  - **order\_status** (statusID, statusDescription, statusDate)
- 

# Entity Relationship Diagram ERD



# Sample SQL Queries

01

**Display book title, its price and ratings where the rating is 4 and above.**

```
SELECT book.bookTitle, book.bookPrice,  
book_rate.starDescription  
FROM book JOIN book_rate  
ON book.starRateID = book_rate.starRateID  
WHERE starRateID >= 4;
```

02

**Display all book title under 'Mystery' category and pages more than 100 pages.**

```
SELECT book.bookTitle, book.bookPages,  
FROM book JOIN book_category ON  
book.categoryID = category.categoryID  
WHERE category.categoryName = 'Mystery' AND  
book.bookPages > 100;
```

03

**Display customer name and email that bought books with a total exceeding RM300.**

```
SELECT customer.customerName,  
customer.customerEmail  
FROM customer JOIN order_cart  
ON customer.customerID = order_cart.customerID  
WHERE order_cart.totalPrice >= 300;
```



Thanks!