# C1- S2-PRACTICE

# **Exercise 1 - BOOK AND AUTHORS**

**Q1** Complete the data types of the attributes of the **book** entity

|  |  |
| --- | --- |
| **BOOK** | |
| Book ID  Title  Publish date  Language | **Numeric**  **String**  **DateTime**  **String** |

**Q2** From the **Author** table below, design the **Author** **schema**

|  |  |  |  |
| --- | --- | --- | --- |
| **Author ID** | **Name** | **Date of birth** | **Country** |
| 001 | Dr.Seuss | **3/2/1904** | USA |
| 002 | J.K.Rowling | 8/31/1965 | UK |
| 003 | Ronal Dahl | 10/13/1916 | UK |

**Q3** By looking on the internet, complete the Book table with at least 3 examples (there are different answers possible)

|  |  |  |  |
| --- | --- | --- | --- |
| **Book ID** | **Title** | **Publish Date** | **Language** |
| **001** | **The cat in the hat** | **3/12/1957** | **English** |
| **002** | **Harry potter** | **7/26/1997** | **English** |
| **003** | **Matilda** | **11/1/1988** | **English** |

**Q4** Complete the Author table with the information of the authors of the book you find on the internet

|  |  |  |  |
| --- | --- | --- | --- |
| **Author ID** | **Name** | **Date of birth** | **Country** |
| **001** | Dr.Seuss | **3/2/1904** | **USA** |
| **002** | J.K.Rowling | **7/26/1997** | **UK** |
| **003** | Ronal Dahl | 10/13/1916 | **UK** |

**Q5** Update the Book table by adding a column to put the relation between the Book table and the Author table.

*Note: Books are written by 1 author only*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Book ID** | **Title** | **Publish Date** | **Language** | **Author** |
| **001** | **One Fish Two Fish** | **3/12/1960** | **English** | Dr.Seuss |
| **002** | **Green Eggs and Ham** | **9/12/1960** | **English** | Dr.Seuss |
| **003** | **The Lorax** | **7/23/1970** | **English** | Dr.Seuss |

**Q6** Update the Books and Author entities and their relationship

|  |  |
| --- | --- |
| **BOOK** | |
| Book ID  Title  Publish date  Language  Author ID | **Numeric**  **String**  **DateTime**  **String**  Numeric |

|  |  |
| --- | --- |
| **AUTHOR** | |
| Author ID  Author Name  Author date of birth  Country | Numeric  String  DateTime  String |

# **Exercise 2 - Movies**

*Note: Movies are directed by 1 director only*

**Q1** Complete the data types of the attributes of the **movie** entity

|  |  |
| --- | --- |
| **MOVIE** | |
| Movie ID  Title  Release Year  Movie Duration | **Numeric**  **String**  **Numeric**  **String** |

**Q2** From the **Director** table below, design the **Director** entity

|  |  |  |  |
| --- | --- | --- | --- |
| **Director ID** | **Name** | **Date of birth** | **Country** |
| Numeric | String | DateTime | String |
| Numeric | String | DateTime | String |
| Numeric | String | DateTime | String |

**Q3** By looking on the internet, complete the Movie table with at least 3 examples (there are different answers possible)

|  |  |  |  |
| --- | --- | --- | --- |
| **Movie ID** | **Title** | **Release Date** | **Movie Duration** |
| **001** | **Transformers** | **2007** | **2h 24mn** |
| **002** | **The family plan** | **2023** | **1h 59mn** |
| **003** | **oppenheimer** | **2023** | **3h** |

**Q4** Complete the Authors table with the information of the authors of the book you find on the internet

|  |  |  |  |
| --- | --- | --- | --- |
| **Director ID** | **Name** | **Date of birth** | **Country** |
| **001** | **Steven Caple jr.** | **2/16/1988** | **USA** |
| **002** | **Simon Cellan Jones** | **1/1/1963** | **UK** |
| **003** | **Christoper Nolan** | **8/30/1970** | **England** |

**Q5** Update the Movie table by adding a column to put the relation between the Movie table and the Director table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Movie ID** | **Title** | **Release Date** | **Movie Duration** | **Director** |
| **001** | **Edge of the darkness** | **1/29/2019** | **1h 57mn** | **Simon Cellan Jones** |
| **002** | **Our friend in the north** | **1/15/1996** | **1h 14m** | **Simon Cellan Jones** |
| **003** | **The family plan** | **12/15/2023** | **1h 59mn** | **Simon Cellan Jones** |

**Q6** Update the Movie and Director entities and their relationship

|  |  |
| --- | --- |
| **MOVIE** | |
| Movie ID  Title  Release date  Movie Duration  Director ID | **Numeric**  **String**  **DateTime**  **String**  Numeric |

|  |  |
| --- | --- |
| **DIRECTOR** | |
| Director ID  Director Name  Director's Date of birth  Country | **Numeric**  **String**  **DateTime**  **String** |