# 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**  **date time**  **string** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Author ID** | **Name** | **Date of birth** | **Country** |
| 001 | cha | 02/April/2023 | Cambodia |
| 002 | ny | 05/July/2004 | Cambodia |
| 003 | channy | 06/June/2004 | Cambodia |

|  |  |
| --- | --- |
| **BOOK** | |
| Author ID  Name  Date of birth  Country | **numeric**  **string**  **date time**  **string** |

**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** |
| **01** | **Tum Teav** | **July/12/2003** | **Khmer** |
| **02** | **Phka Srapoun** | **May/09/1949** | **Khmer** |
| **03** | **Wish** | **November/8/2023** | **English** |

|  |  |
| --- | --- |
| **BOOK** | |
| Book ID  Title  Publish date  Language | **numeric**  **string**  **date time**  **string** |

**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** |
| **01** | **Preah Botumthera Som** | **28/July/1852** | **Prey Veng** |
| **02** | **Nou Hach** | **26/June/1916** | **Battambang** |
| **03** | **Barbara O’connor** | **09/November/1950** | **American** |

|  |  |
| --- | --- |
| **BOOK** | |
| Author ID  Name  Date of birth  Country | **numeric**  **string**  **date time**  **string** |

**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** | **Authou ID** |
| **01** | **Mealea Duong Chett** | **June/10/1972** | **Khmer** | **02** |
| **02** | **Phka Srapoun** | **May/09/1949** | **Khmer** | **02** |
| **03** | **Neari Chea Ti Sneha** | **July/11/1953** | **Khmer** | **02** |

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

|  |  |
| --- | --- |
| **BOOK** | |
| Book ID  Title  Publish date  Language  Author ID | **numeric**  **string**  **date time**  **string**  **numeric** |

|  |  |
| --- | --- |
| **AUTHOR** | |
| **Author ID**  **Name**  **Date of birth**  **Country**  Book ID | numeric  string  date time  string  numeric |

# **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** |
| **01** | **Preah Botumthera Som** | **28/July/1852** | **Prey Veng** |
| **02** | **Nou Hach** | **26/June/1916** | **Battambang** |
| 03 | Nhok Them | 22/June/1903 | Cambodia |

**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** |
| **1001** | **Tom & jerry** | **10/2/2012** | **10year** |
| **1002** | **The Nun** | **20/6/2023** | **1year** |
| **1003** | **Ah Dam** | **23/4/2021** | **2year** |

**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** |
| **01** | **Preah Botumthera Som** | **28/July/1852** | **Prey Veng** |
| **02** | **Nou Hach** | **26/June/1916** | **Battambang** |
| 03 | Nhok Them | 22/June/1903 | Cambodia |
|  |  |  |  |

**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** | **time** |
| **1001** | **Tom & jerry** | **10/2/2012** | **10year** | **2h** |
| **1002** | **The Nun** | **20/6/2023** | **1year** | **1:30mn** |
| **1003** | **Ah Dam** | **23/4/2021** | **2year** | **3h** |

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

|  |  |
| --- | --- |
| **MOVIE** | |
| Movie ID  Title  Release date  Movie Duration  Director id | **Num**  **str**  **date**  **str**  **Num** |

|  |  |
| --- | --- |
| **DIRECTOR** | |
| Director id  Director name  Director date | **num**  **str**  **date** |

Many to 1