# 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 | **int**  **Varchar**  **Date and time**  **varchar** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Author ID** | **Name** | **Date of birth** | **Country** |
| XXX | XXX | XXX | XXX |
| XXX | XXX | XXX | XXX |
| XXX | XXX | XXX | XXX |

|  |  |
| --- | --- |
| **Author** | |
| **Author ID**  **Name**  **Date of birth**  **Country** | **Int**  **Varchar**  **Date**  **Varchar** |

**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** | **Harry Potter** | **1997** | **English** |
| **002** | **Sophat** | **1942** | **Khmer** |
| **003** | **This is Doctor Strange and Scarlet Witch** | **2022** | **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** | J.K.ROWLING | **1965** | **English** |
| **002** | **Rim Kin** | **1911** | **Cambodia** |
| **003** | **Stan Lee** | **1922** | **US** |

**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 ID** |
| **001** | **Harry Potter** | **1997** | **English** | **001** |
| **002** | **Sophat** | **1942** | **Khmer** | **002** |
| **003** | **This is Doctor Strange and Scarlet Witch** | **2022** | **English** | **003** |

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

|  |  |
| --- | --- |
| **BOOK** | |
| Book ID  Title  Publish date  Language  Author ID | **Int**  **varchar**  **Date**  **Varchar**  **INT** |

|  |  |
| --- | --- |
| **AUTHOR** | |
| Author ID  Name  Date of birth  Country | **Int**  Varchar  Date  Varchar |

# **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 Length | **Int**  **Varchar**  **Date** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Director ID** | **Name** | **Date of birth** | **Country** |
| XX | **XX** | **XX** | **XX** |
| **XX** | XX | **XX** | **XX** |
| **XX** | **XX** | **XX** | **XX** |

|  |  |
| --- | --- |
| Director | |
| **Director ID**  **Name**  **Date of birth**  **Country** | **Int**  **Varchar**  **Date**  **Varchar** |

**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 Length** |
| **001** | រឿង​មុនដំបូង​ខ្មែរក្រហម​សម្លាប់​ប៉ា​របស់ខ្ញុំ | February 18, 2017 | **136 mn** |
| **002** | ***The Chronicles of Narnia*** | 9 December 2005 | **406 mn** |
| **003** | ***The Nun*** | September 4, 2018 | **96 mn** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Director ID** | **Name** | **Date of birth** | **Country** |
| 1 | **Angelia Julie** | **June,4 1975** | America |
| **2** | Corin Hardy | **January,6 1975** | America |
| **3** | **Andrew Adamson** | **December,1 1966** | **New Zealand** |

**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 Length** | **Director ID** |
| **001** | រឿង​មុនដំបូង​ខ្មែរក្រហម​សម្លាប់​ប៉ា​របស់ខ្ញុំ | February 18, 2017 | **136 mn** | **1** |
| **002** | ***The Chronicles of Narnia*** | 9 December 2005 | **406 mn** | **3** |
| **003** | ***The Nun*** | September 4, 2018 | **96 mn** | **2** |

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

|  |  |
| --- | --- |
| **DIRECTOR** | |
| Director ID  Name  Date of birth  Country | **int**  **varchar**  **date**  **varchar** |

|  |  |
| --- | --- |
| **MOVIE** | |
| Movie ID  Title  Release date  Movie length  Director ID | **int**  **varchar**  **date**  **time**  **int** |