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

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

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

|  |  |
| --- | --- |
| **Author** | |
| Author  Name  Date of birth  Country | **String**  **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** |
| **B01** | កុំអស់សង្ឃឹម | 17 Dec 2019 | **Khmer** |
| **B02** | ថាមពលជីវិត | 08 Nov 2009 | **Khmer** |
| **B03** | ចំណីគំនិត | 26 Mar 2011 | **Khmer** |

**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** |
| **B01** | **Ourn Sarath** | **14/06/1975** | **Cambodia** |
| **B02** | **Ourn Sarath** | **14/06/1975** | **Cambodia** |
| **B03** | **Ourn Sarath** | **14/06/1975** | **Cambodia** |

**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** |
| **B01** | កុំអស់សង្ឃឹម | 17 Dec 2019 | **Khmer** |  |
| **B02** | ថាមពលជីវិត | 08 Nov 2009 | **Khmer** |  |
| **B03** | ចំណីគំនិត | 26 Mar 2011 | **Khmer** |  |

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

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

|  |  |
| --- | --- |
| **AUTHOR** | |
| **Author ID**  **Name**  **Date of birth**  **Country** | string  string  date time  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 | **String**  **string**  **Numberic**  **date time** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Director ID** | **Name** | **Date of birth** | **Country** |
| **D01** | **Ourn Sarath** | 17 Dec 2019 | **Cambodia** |
| **D02** | **Ourn Sarath** | 08 Nov 2009 | **Cambodia** |
| **D03** | **Ourn Sarath** | 26 Mar 2011 | **Cambodia** |

|  |  |
| --- | --- |
| **Director** | |
| Director ID  Name  Date of birth  Country | **String**  **string**  **Numberic**  **date time** |

**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** |
| **D01** | កុំអស់សង្ឃឹម | 17 Dec 2019 | 17 Dec 2019 |
| **D02** | ថាមពលជីវិត | 08 Nov 2009 | 08 Nov 2009 |
| **D03** | ចំណីគំនិត | 26 Mar 2011 | 26 Mar 2011 |

**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** |
| **D01** | **Ourn Sarath** | 17 Dec 2019 | **Cambodia** |
| **D02** | **Ourn Sarath** | 08 Nov 2009 | **Cambodia** |
| **D03** | **Ourn Sarath** | 26 Mar 2011 | **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** | **???** |
| **D01** | កុំអស់សង្ឃឹម | 17 Dec 2019 | 17 Dec 2019 |  |
| **D02** | ថាមពលជីវិត | 08 Nov 2009 | 08 Nov 2009 |  |
| **D03** | ចំណីគំនិត | 26 Mar 2011 | 26 Mar 2011 |  |

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

|  |  |
| --- | --- |
| **MOVIE** | |
| Movie ID  Title  Release date  Movie Duration  ??? | **String**  **string**  **Numberic**  **Date time** |

|  |  |
| --- | --- |
| **DIRECTOR** | |
| **Director ID**  **Name**  **Date of birth**  **Country** | **String**  **string**  **Numberic**  **Date time** |