

C1- S2-PRACTICE

Exercise 1 - BOOK AND AUTHORS

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

| BOOK | |
|--------------|---------------|
| Book ID | int |
| Title | Varchar |
| Publish date | Date and time |
| Language | 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 | |
|----------------------|----------------|
| <u>Author ID</u> | <u>Int</u> |
| <u>Name</u> | <u>Varchar</u> |
| <u>Date of birth</u> | <u>Date</u> |
| <u>Country</u> | <u>Varchar</u> |

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 | Sopha | 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 | Int |
| Title | varchar |
| Publish date | Date |
| Language | Varchar |
| Author ID | INT |

| AUTHOR | |
|---------------|---------|
| Author ID | Int |
| Name | Varchar |
| Date of birth | Date |
| Country | 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 | Int |
| Title | Varchar |
| Release Year | Date |
| Movie Length | |

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 | |
|----------------------|----------------|
| <u>Director ID</u> | <u>Int</u> |
| <u>Name</u> | <u>Varchar</u> |
| <u>Date of birth</u> | <u>Date</u> |
| <u>Country</u> | <u>Varchar</u> |

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 | រឿងមុនដំបូងនៃក្រុមហាមសម្លាប់ប៉ារបស់ខ្ញុំ | February 18, 2017 | 136 mn |
| 002 | <i>The Chronicles of Narnia</i> | 9 December 2005 | 406 mn |
| 003 | <i>The Nun</i> | 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 | រឿងមុនដំបូងនៃក្រុមហាមសម្លាប់ប៉ារបស់ខ្ញុំ | February 18, 2017 | 136 mn | 1 |
| 002 | <i>The Chronicles of Narnia</i> | 9 December 2005 | 406 mn | 3 |
| 003 | <i>The Nun</i> | September 4, 2018 | 96 mn | 2 |

Q6 Update the Movie and Director entities and their relationship

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

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