**DB Design**

**Tables:**

|  |  |  |
| --- | --- | --- |
| **Athletes** | | |
| Field Name | Type | Comment |
| Id | Integer | >0, PK |
| Name | Text | Not Null |
| Country | Text |
| Active | Boolean |

|  |  |  |
| --- | --- | --- |
| **Sports** | | |
| Field Name | Type | Comment |
| Id | Integer | >0, PK |
| Name | Text | Not Null |
| City | Text |
| Counter | Integer | >=0, Default: 0 |

|  |  |  |
| --- | --- | --- |
| **Participants** | | |
| Field Name | Type | Comment |
| Aid | Integer | >0, FK |
| Sid | Integer | >0, FK |
| Payment | Integer |  |
| Place | Integer | NULL OR {1,2,3} |

|  |  |  |
| --- | --- | --- |
| **Friends** | | |
| Field Name | Type | Comment |
| Aid1 | Integer | >0, FK |
| Aid2 | Integer | >0, FK |

**Views:**

|  |  |  |
| --- | --- | --- |
| **Winners** | | |
| Field Name | Type | Comment |
| AId | Integer | >0, FK |
| Name | TEXT | NOT NULL |
| Country | TEXT | NOT NULL |
| Sid | Integer | >0, FK |
| Place | Integer | {1,2,3} |

|  |  |  |
| --- | --- | --- |
| **Observers** | | |
| Field Name | Type | Comment |
| Aid | Integer | >0, FK |
| Sid | Integer | >0, FK |
| Payment | Integer |  |

|  |  |  |
| --- | --- | --- |
| **ActiveParticipants** | | |
| Field Name | Type | Comment |
| Aid | Integer | >0, FK |
| Sid | Integer | >0, FK |

|  |  |  |
| --- | --- | --- |
| **MedalsScore** | | |
| Field Name | Type | Comment |
| AId | Integer | >0, FK |
| Golds | Integer |  |
| Silvers | Integer |  |
| Bronzes | Integer |  |
| Rating | Integer |  |

**Explanations:**