**Constraints**

**Attribute constraints**

|  |  |
| --- | --- |
| Ticket ID must be a positive integer. | Static constraint |
| Ticket Order\_Number can be NULL. | static constraint |
| TicketCategory default value is “A”. | static constraint |
| OrderNumber must be a positive integer. | static constraint |
| OrderDate must be before or equal to current date. | static constraint |
| OrderDate must include the date and the time (dd/mm/yyyy hh:mm). | static constraint |
| PaymentStatus must be in {“Paid”, “Not Paid”, “Pending”} | static constraint |
| PaymentType must be in {“Bank Transfer”, “VISA”, “Mastercard”, “Maestro”, “American Express”, “Paypal”} | static constraint |
| EventNr must be a positive integer. | static constraint |
| EventCategory must be in { “Cinema & Theatre”, “Concerts & Shows”, “Sports”, “Family”, “Expositions” } | static constraint |
| Event Description include maximum 6000 characters (to fit on two A4 pages). | static constraint |
| E\_Location must consist on street, house number (incl. stair, floor, apartment, ...), Postcode, City, State/Country | static constraint |
| E\_Date must be later than current date. | static constraint |
| E\_Date must include the date and the time (dd/mm/yyyy hh:mm). | static constraint |
| filePath can be NULL. | static constraint |
| A\_mail must have the following format: *username@domain.extension* | static constraint |
| A\_Password must be at least 8 characters long. | static constraint |
| O\_mail must have the following format: *username@domain.extension* | static constraint |
| O\_PhoneNr format must be *+prefix\_phone number* | static constraint |
| O\_Password must be at least 8 characters long. | static constraint |
| O\_Address must consist on street, house number (incl. stair, floor, apartment, ...), Postcode, City, State/Country | static constraint |
| C\_mail must have the following format: *username@domain.extension* | static constraint |
| C\_PhoneNr format must be *+prefix\_phone number* | static constraint |
| C\_Password must be at least 8 characters long. | static constraint |
| Customer Status must be in {“Active”, “Disabled”} | static constraint |
| C\_Address must consist on street, house number (incl. stair, floor, apartment, ...), Postcode, City, State/Country | static constraint |
| C\_Name must at least consist of the First and Last Name. | static constraint |
| C\_Birthdate must be before current date. | static constraint |
| C\_Birthdate must be 18 years old or older. | static constraint |

\* If not stated attributes cannot be NULL.

**Tuple constraints**

|  |  |
| --- | --- |
| If PaymentType is “Bank transfer” à PaymentStatus is “Pending”. | static constraint |

**Relation constraints**

|  |  |
| --- | --- |
| There cannot be two customers with the same C\_mail. | static constraint |
| There cannot be two organizers with the same O\_mail. | static constraint |
| There cannot be two admins with the same A\_mail. | static constraint |
| There cannot be two tickets with the same ID. | static constraint |
| There cannot be two events with the same EventNr. | static constraint |
| There cannot be two orders with the same OrderNumber. | static constraint |

**Database constraints**

|  |  |
| --- | --- |
| An e-mail address can only belong to A\_mail, C\_mail or O\_mail. | static constraint |
| Event tickets can only belong to existing events. | static constraint |
| Events can only belong to existing organizers. | static constraint |
| Orders can only belong to existing customers. | static constraint |