**Data dictionary:**

Relation name: Airport.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference |
| 1 | **AID** | **VARCHAR (4)** | **The code of the international airport.** | **ü** |  |  |
| 2 | **airport\_name** | **VARCHAR (50)** | **The official name of the airport.** |  |  |  |
| 3 | **country** | **VARCHAR (32)** | **The name of the country where the airport is located.** |  |  |  |
| 4 | **city** | **VARCHAR (32)** | **The city where the airport is located.** |  |  |  |

Number of att.: 4.

Relation name: Flight.

Number of att.: 7

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference | |
| 1 | **FID** | **VARCHAR (20)** | **The ID of the flight.** | **ü** |  |  | |
| 2 | **AID\_origin** | **VARCHAR (4)** | **The code of the international airport.** |  | **ü** | **Airport** |
| 3 | **AID\_destination** | **VARCHAR**  **(4)** | **The code of the international airport.** |  | **ü** | **Airport** | |
| 4 | **departure\_time** | **Date\Time** | **The date and time of departure.** |  |  |  | |
| 5 | **arrival\_time** | **Date\Time** | **The date and time of arrival.** |  |  |  | |
| 6 | **status** | **VARCHAR (10)** | **Scheduled, departure, arrived or cancelled.** |  |  |  | |
| 7 | **estimated\_time** | **Number(4)** | **The estimated time for the flight.** |  |  |  | |

Relation name: Passenger.

Number of att.: 9

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference |
| 1 | **passport\_no** | **VARCHAR(20)** | **Passport number.** | **✓** |  |  |
| 2 | **nationlality** | **VARCHAR(20)** | **Nationality.** |  |  |
| 3 | **Fname** | **VARCHAR(20)** | **First name.** |  |  |  |
| 4 | **Lname** | **VARCHAR(20)** | **Last name.** |  |  |  |
| 5 | **age** | **Number(3)** |  |  |  |  |
| 6 | **gender** | **VARCHAR(1)** | **‘M’ for male and ‘F’ for female.** |  |  |  |
| 7 | **city** | **VARCHAR(15)** | **City he lives.** |  |  |  |
| 8 | **street** | **VARCHAR(15)** | **Street he lives.** |  |  |  |
| 9 | **house\_no** | **VARCHAR(15)** | **House number.** |  |  |  |

Relation name: Phone\_number.

Number of att.: 3.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference |
| 1 | **nationality** | **VARCHAR(20)** |  | **ü** | **ü** | **Passenger** |
| 2 | **passport\_no** | **VARCHAR(20)** |  |
| 3 | **phone\_number** | **VARCHAR(15)** | **A phone number of that passenger.** |  |  |

Relation name: Aircraft.

Number of att.: 7

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference |
| 1 | **ArID** | **VARCHAR**  **(12)** | **The ID of the aircraft** | **ü** |  |  |
| 2 | **FID** | **VARCHAR (20)** | **The ID of the flight.** |  | **ü** | **Flight** |
| 3 | **model\_name** | **VARCHAR(32)** | **The model of the aircraft.** |  |  |  |
| 4 | **economy\_class\_capacity** | **Number**  **(3)** | **The number of the passengers on the economy class** |  |  |  |
| 5 | **first\_class\_capacity** | **Number**  **(3)** | **The number of the passengers on the first class** |  |  |  |
| 6 | **screen** | **VARCHAR**  **(1)** | **"Y” if it has screen else “N”** |  |  |  |
| 7 | **wifi** | **VARCHAR (1)** | **"Y” if it has wi-fi else “N”** |  |  |  |

Relation name: Book.

Number of att.: 6

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| no. | Attribute name | Datatype | Description | Primary Key | Foreign Key | Reference |
| 1 | **passport\_no** | **VARCHAR(20)** | **Passport number of the passenger.** | **ü** | **ü** | **Passenger** |
| 2 | **nationlality** | **VARCHAR(20)** | **Nationality of the passenger.** |
| 3 | **FID** | **VARCHAR(20)** | **Flight ID of the booked flight.** | **ü** | **Flight** |
| 4 | **price** | **Number(5, 3)** | **Cost of the ticket.** |  |  |  |
| 5 | **fare\_class** | **VARCHAR(1)** | **‘F’ for first-class and ‘E’ for economy.** |  |  |  |
| 6 | **seat\_number** | **Number(3)** | **The number of the booked seat.** |  |  |  |