**Documentazione Tabelle Database - Write Model**

**Tabella: airplane\_seats**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_airplane | int | No | FK |  | airplanes |  |
| id\_airline | smallint | No | FK |  | airlines |  |
| id\_fare\_type\_family | tinyint | No | FK |  | fare\_type\_families |  |
| seat | varchar(4) | Sì |  |  |  |  |

**Tabella: airplanes**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | int | No | PK |  |  |  |
| model | varchar(50) | No |  |  |  |  |

**Tabella: airlines**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| iata\_airline\_code | char(2) | No |  | UQ |  |  |
| icao\_airline\_code | char(3) | No |  | UQ |  |  |
| airline\_name | varchar(50) | No |  |  |  |  |
| id\_country | tinyint | No | FK |  | countries |  |

**Tabella: airports**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| iata\_airport\_code | char(3) | No |  | UQ |  |  |
| city\_id | smallint | No | FK |  | cities |  |
| airport\_name | varchar(50) | No |  |  |  |  |
| airport\_address | varchar(255) | Sì |  |  |  |  |

**Tabella: cities**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| country\_id | tinyint | Sì | FK |  | countries |  |
| area\_local\_code | varchar(5) | Sì |  |  |  |  |
| city\_name | varchar(25) | No |  |  |  |  |

**Tabella: continents**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(2) | No |  | UQ |  |  |
| continent\_name | varchar(16) | No |  |  |  |  |

**Tabella: countries**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(3) | No |  | UQ |  |  |
| continent\_id | tinyint | No | FK |  | continents |  |
| country\_name | varchar(25) | No |  |  |  |  |

**Tabella: fare\_type\_details**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_fare\_type | int | No | PK, FK |  | fare\_types |  |
| id\_fare\_type\_option | smallint | No | PK, FK |  | fare\_type\_options |  |
| detail\_value | varchar(255) | No |  |  |  |  |

**Tabella: fare\_type\_families**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| family\_code | char(1) | No |  |  |  |  |
| family\_name | varchar(10) | No |  |  |  |  |

**Tabella: fare\_type\_options**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| option\_code | varchar(25) | No |  | UQ |  |  |

**Tabella: fare\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | int | No | PK |  |  |  |
| id\_fare\_type\_family | tinyint | No | FK |  | fare\_type\_families |  |
| id\_airline | smallint | No | FK | UQ | airlines |  |
| fare\_code | varchar(5) | No |  | UQ |  |  |
| fare\_name | varchar(25) | No |  |  |  |  |

**Tabella: flight\_schedule\_base\_prices**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_flight\_schedule | bigint | No | FK |  | flight\_schedules |  |
| id\_fare\_type | int | No | FK |  | fare\_types |  |
| base\_price | money | No |  |  |  |  |

**Tabella: flight\_schedule\_seats**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_journey | bigint | No | PK, FK |  | journeys |  |
| id\_passenger | bigint | No | PK, FK |  | passengers |  |
| id\_seat | bigint | No | PK, FK |  | airplane\_seats |  |
| id\_fare\_type | int | No | FK |  | fare\_types |  |

**Tabella: flight\_schedules**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_flight | smallint | No | FK | UQ | flights |  |
| id\_airplane | int | No | FK |  | airplanes |  |
| id\_origin\_airport | smallint | No | FK |  | airports |  |
| id\_destination\_airport | smallint | No | FK |  | airports |  |
| departure\_date | date | No |  | UQ |  |  |
| departure\_time | time | No |  |  |  |  |
| arrival\_date | date | No |  |  |  |  |
| arrival\_time | time | No |  |  |  |  |

**Tabella: flights**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| id\_airline | smallint | No | FK |  | airlines |  |
| iata\_flight\_code | varchar(6) | No |  | UQ |  |  |

**Tabella: identity\_document\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(2) | No |  |  |  |  |
| type\_name | varchar(25) | No |  |  |  |  |

**Tabella: journeys**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_journey | bigint | No | PK |  |  |  |
| id\_reservation | bigint | No | FK |  | reservations |  |
| id\_flight\_schedule | bigint | No | FK |  | flight\_schedules |  |
| flight\_segment\_number | tinyint | No |  |  |  |  |

**Tabella: passengers**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint # Documentazione Tabelle Database - Write Model |  |  |  |  |  |

**Tabella: sex\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(1) | No |  |  |  |  |
| sex\_type\_name | varchar(100) | No |  |  |  |  |

**Tabella: continents**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(2) | No |  | UQ |  |  |
| continent\_name | varchar(16) | No |  |  |  |  |

**Tabella: countries**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(3) | No |  | UQ |  |  |
| continent\_id | tinyint | No | FK |  | continents |  |
| country\_name | varchar(25) | No |  |  |  |  |

**Tabella: cities**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| country\_id | tinyint | Sì | FK |  | countries |  |
| area\_local\_code | varchar(5) | Sì |  |  |  |  |
| city\_name | varchar(25) | No |  |  |  |  |

**Tabella: airports**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| iata\_airport\_code | char(3) | No |  | UQ |  |  |
| city\_id | smallint | No | FK |  | cities |  |
| airport\_name | varchar(50) | No |  |  |  |  |
| airport\_address | varchar(255) | Sì |  |  |  |  |

**Tabella: price\_components**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| id\_airline | smallint | No | FK | UQ | airlines |  |
| price\_component\_code | varchar(10) | No |  | UQ |  |  |
| price\_component\_name | varchar(255) | No |  |  |  |  |
| price\_component\_regex | varchar(1025) | Sì |  |  |  |  |

**Tabella: airlines**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| iata\_airline\_code | char(2) | No |  | UQ |  |  |
| icao\_airline\_code | char(3) | No |  | UQ |  |  |
| airline\_name | varchar(50) | No |  |  |  |  |
| id\_country | tinyint | No | FK |  | countries |  |

**Tabella: flights**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| id\_airline | smallint | No | FK |  | airlines |  |
| iata\_flight\_code | varchar(6) | No |  | UQ |  |  |

**Tabella: reservation\_systems**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| reservation\_system\_code | varchar(3) | No |  | UQ |  |  |
| reservation\_system\_name | varchar(25) | No |  |  |  |  |

**Tabella: fare\_type\_families**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| family\_code | char(1) | No |  |  |  |  |
| family\_name | varchar(10) | No |  |  |  |  |

**Tabella: fare\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | int | No | PK |  |  |  |
| id\_fare\_type\_family | tinyint | No | FK |  | fare\_type\_families |  |
| id\_airline | smallint | No | FK | UQ | airlines |  |
| fare\_code | varchar(5) | No |  | UQ |  |  |
| fare\_name | varchar(25) | No |  |  |  |  |

**Tabella: fare\_type\_options**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | smallint | No | PK |  |  |  |
| option\_code | varchar(25) | No |  | UQ |  |  |

**Tabella: fare\_type\_details**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_fare\_type | int | No | PK, FK |  | fare\_types |  |
| id\_fare\_type\_option | smallint | No | PK, FK |  | fare\_type\_options |  |
| detail\_value | varchar(255) | No |  |  |  |  |

**Tabella: telephone\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | varchar(5) | No |  | UQ |  |  |
| type\_name | varchar(50) | No |  |  |  |  |

**Tabella: identity\_document\_types**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | char(2) | No |  |  |  |  |
| type\_name | varchar(25) | No |  |  |  |  |

**Tabella: airplanes**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | int | No | PK |  |  |  |
| model | varchar(50) | No |  |  |  |  |

**Tabella: payment\_methods**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | varchar(10) | No |  |  |  |  |
| method\_name | varchar(50) | No |  |  |  |  |

**Tabella: users**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| user\_id | uniqueidentifier | No | PK |  |  |  |
| user\_name | varchar(255) | No |  | UQ |  |  |
| password | varchar(2048) | No |  |  |  |  |
| first\_name | varchar(100) | No |  |  |  |  |
| last\_name | varchar(100) | No |  |  |  |  |
| birth\_date | date | No |  |  |  |  |
| id\_sex\_type | tinyint | No | FK |  | sex\_types |  |
| email | varchar(100) | No |  |  |  |  |
| id\_telephone | bigint | No | FK |  | telephones |  |
| address | varchar(1000) | No |  |  |  |  |
| zip\_code | varchar(10) | Sì |  |  |  |  |
| id\_city | smallint | No | FK |  | cities |  |
| frequent\_flyer\_code | varchar(15) | Sì |  |  |  |  |
| frequent\_flyer\_exp\_date | date | Sì |  |  |  |  |
| frequent\_flyer\_point\_balance | int | Sì |  |  |  |  |

**Tabella: airplane\_seats**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_airplane | int | No | FK |  | airplanes |  |
| id\_airline | smallint | No | FK |  | airlines |  |
| id\_fare\_type\_family | tinyint | No | FK |  | fare\_type\_families |  |
| seat | varchar(4) | Sì |  |  |  |  |

**Tabella: flight\_schedules**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_flight | smallint | No | FK | UQ | flights |  |
| id\_airplane | int | No | FK |  | airplanes |  |
| id\_origin\_airport | smallint | No | FK |  | airports |  |
| id\_destination\_airport | smallint | No | FK |  | airports |  |
| departure\_date | date | No |  | UQ |  |  |
| departure\_time | time | No |  |  |  |  |
| arrival\_date | date | No |  |  |  |  |
| arrival\_time | time | No |  |  |  |  |

**Tabella: flight\_schedule\_base\_prices**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_flight\_schedule | bigint | No | FK |  | flight\_schedules |  |
| id\_fare\_type | int | No | FK |  | fare\_types |  |
| base\_price | money | No |  |  |  |  |

**Tabella: reservations**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| pnr\_code | varchar(6) | No |  | UQ |  |  |
| id\_reservation\_system | tinyint | No | FK | UQ | reservation\_systems |  |
| id\_origin\_airport | smallint | No | FK |  | airports |  |
| id\_destination\_airport | smallint | No | FK |  | airports |  |
| round\_trip | bit | No |  |  |  |  |
| departure\_date | date | No |  |  |  |  |
| return\_date | date | Sì |  |  |  |  |
| id\_fare\_type | int | No | FK |  | fare\_types |  |
| total\_price | money | Sì |  |  |  |  |
| discount | money | Sì |  |  |  |  |
| id\_payment\_method | tinyint | Sì | FK |  | payment\_methods |  |
| check\_in | bit | No |  |  |  |  |
| checked\_in | bit | No |  |  |  |  |
| owner\_conditions\_acceptance | bit | No |  |  |  |  |
| id\_reservations\_status | tinyint | No | FK |  | reservations\_statuses |  |

**Tabella: journeys**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_journey | bigint | No | PK |  |  |  |
| id\_reservation | bigint | No | FK |  | reservations |  |
| id\_flight\_schedule | bigint | No | FK |  | flight\_schedules |  |
| flight\_segment\_number | tinyint | No |  |  |  |  |

**Tabella: passengers**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_reservation | bigint | No | FK |  | reservations |  |
| reservation\_owner | bit | No |  |  |  |  |
| user\_id | uniqueidentifier | Sì | FK |  | users |  |
| ticket\_number | varchar(13) | Sì |  |  |  |  |
| first\_name | varchar(100) | No |  |  |  |  |
| last\_name | varchar(100) | No |  |  |  |  |
| birth\_date | date | No |  |  |  |  |
| email | varchar(100) | Sì |  |  |  |  |
| id\_doc\_type | tinyint | No | FK |  | identity\_document\_types |  |
| doc\_number | varchar(50) | No |  |  |  |  |
| doc\_expiration\_date | date | No |  |  |  |  |

**Tabella: reservation\_component\_prices**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_passenger | bigint | No | PK, FK |  | passengers |  |
| id\_price\_conponent | tinyint | No | PK, FK |  | price\_components |  |
| price | money | No |  |  |  |  |

**Tabella: flight\_schedule\_seats**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_journey | bigint | No | PK, FK |  | journeys |  |
| id\_passenger | bigint | No | PK, FK |  | passengers |  |
| id\_seat | bigint | No | PK, FK |  | airplane\_seats |  |
| id\_fare\_type | int | No | FK |  | fare\_types |  |

**Tabella: reservations\_telephones**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id\_reservation | bigint | No | PK, FK |  | reservations |  |
| id\_telephone | bigint | No | PK, FK |  | telephones |  |

**Tabella: reservations\_statuses**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | tinyint | No | PK |  |  |  |
| cod | varchar(7) | No |  | UQ |  |  |
| status\_name | varchar(15) | No |  |  |  |  |
| status\_description | varchar(100) | Sì |  |  |  |  |

**Tabella: telephones**

| **Nome Campo** | **Tipo Dato** | **Null (Sì/No)** | **Chiave** | **Indice** | **In relazione con** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| id | bigint | No | PK |  |  |  |
| id\_telephone\_type | tinyint | No | FK |  | telephone\_types |  |
| telephone\_country\_code | varchar(4) | No |  |  |  |  |
| telephone\_area\_code | varchar(5) | No |  |  |  |  |
| telephone\_number | varchar(10) | No |  |  |  |  |