**Schema - Airline Reservation System**

mysql> show tables;

+-----------------------------------------------------+

| Tables\_in\_airline\_reservation\_system |

+-----------------------------------------------------+

| admin |

| bookings |

| flights |

| passengers |

| payments |

| users |

+-----------------------------------------------------+

mysql> desc users;

+---------------+----------------+-------+------+------------+---------------------+

| Field | Type | Null | Key | Default | Extra |

+---------------+----------------+--------+------+-----------+----------------------+

| user\_id | int | NO | PRI | NULL | auto\_increment |

| name | varchar(30) | YES | | NULL | |

| email | varchar(30) | YES | | NULL | |

| password | varchar(20) | YES | | NULL | |

| phone | varchar(10) | YES | | NULL | |

| user\_type | varchar(20) | YES | | NULL | |

+---------------+-----------------+-------+------+-----------+-----------------------+

mysql> desc flights;

+-----------------------+----------------+-------+------+------------+---------+

| Field | Type | Null | Key | Default | Extra |

+-----------------------+-----------------+------+------+------------+---------+

| flight\_id | int | NO | PRI | NULL | |

| flight\_name | varchar(30) | YES | UNI | NULL | |

| airline\_name | varchar(20) | YES | | NULL | |

| source | varchar(30) | YES | | NULL | |

| destination | varchar(30) | YES | | NULL | |

| departure\_time | datetime | YES | | NULL | |

| arrival\_time | datetime | YES | | NULL | |

| capacity | int | YES | | NULL | |

+-----------------------+-----------------+--------+-----+------------+---------+

mysql> desc passengers;

+--------------------+-----------------------+-------+-------+------------+-----------------------+

| Field | Type | Null | Key | Default | Extra |

+--------------------+-----------------------+-------+--------+------------+----------------------+

| passenger\_id | int | NO | PRI | NULL | auto\_increment |

| booking\_id | int | YES | MUL | NULL | |

| name | varchar(20) | YES | | NULL | |

| age | int | YES | | NULL | |

| gender | enum('M','F','O') | YES | | NULL | |

| seat\_number | varchar(30) | YES | | NULL | |

+---------------------+-----------------------+-------+--------+-----------+-----------------------+

mysql> desc bookings;

+-----------------------+-----------------+------+--------+-----------+--------+

| Field | Type | Null | Key | Default | Extra |

+-----------------------+-----------------+------+--------+-----------+--------+

| booking\_id | int | NO | PRI | NULL | |

| user\_id | int | YES | MUL | NULL | |

| flight\_id | int | YES | MUL | NULL | |

| booking\_date | datetime | YES | | NULL | |

| status | varchar(30) | YES | | NULL | |

| payment\_status | varchar(30) | YES | | NULL | |

+-----------------------+-----------------+-------+--------+-----------+--------+

mysql> desc payments;

+-----------------------+------------------+-------+--------+-----------+-----------------------+

| Field | Type | Null | Key | Default | Extra |

+------------------------+-----------------+-------+--------+------------+----------------------+

| payment\_id | int | NO | PRI | NULL | auto\_increment |

| booking\_id | int | YES | MUL | NULL | |

| payment\_date | datetime | YES | | NULL | |

| amount | int | YES | | NULL | |

| payment\_mode | varchar(30) | YES | | NULL | |

| payment\_status | varchar(30) | YES | | NULL | |

+-------------------------+-----------------+-------+--------+-----------+----------------------+

mysql> desc admin;

+--------------+-------+------+--------+----------+-----------------------+

| Field | Type|Null | Key | Default| Extra |

+--------------+-------+------+--------+----------+-----------------------+

| admin\_id | int | NO | PRI | NULL | auto\_increment |

| user\_id | int | YES | MUL | NULL | |

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**Relationships**

1. **Users ↔ Bookings**: One user can have multiple bookings (1:N).
2. **Flights ↔ Bookings**: One flight can have multiple bookings (1:N).
3. **Bookings ↔ Passengers**: One booking can have multiple passengers (1:N).
4. **Bookings ↔ Payments**: One booking can have one payment (1:1).