---

1. جدول کاربر:

```sql
CREATE TABLE users
(
    id                 INT          NOT NULL AUTO_INCREMENT PRIMARY KEY,
    username           VARCHAR(50)  NOT NULL UNIQUE,
    hashed_password    VARCHAR(128) NOT NULL,
    gender             TINYINT      NOT NULL,
    national_code      VARCHAR(10)  NOT NULL UNIQUE,
    persian_first_name VARCHAR(30)  NOT NULL,
    persian_last_name  VARCHAR(30)  NOT NULL,
    latin_first_name   VARCHAR(30)  NOT NULL,
    latin_last_name    VARCHAR(30)  NOT NULL,
    phone_number       VARCHAR(15)  NOT NULL UNIQUE,
    email              VARCHAR(254) NOT NULL UNIQUE,
    credit             INT          NOT NULL
);
```

2. جدول کد تخفیف:

```sql
CREATE TABLE discount_code
(
    code                VARCHAR(50) NOT NULL PRIMARY KEY,
    reservation_type    SMALLINT    NOT NULL,
    max_discount_value  INT,
    discount_percentage TINYINT     NOT NULL,
    start_datetime      DATETIME    NOT NULL,
    expiry_datetime     DATETIME    NOT NULL
);
```

3. جدول کاربران مشمول کد تخفیف:

```sql
CREATE TABLE discount_code_user
(
    code    VARCHAR(50) NOT NULL,
    user_id INT         NOT NULL,
    FOREIGN KEY (code) REFERENCES discount_code(code),
    FOREIGN KEY (user_id) REFERENCES users(id)
);
```

4. جدول ویلای اجاره‌ای:

```sql
CREATE TABLE villa
(
    id           INT          NOT NULL AUTO_INCREMENT PRIMARY KEY,
    name         VARCHAR(80)  NOT NULL,
    description  VARCHAR(300) NOT NULL,
    address      VARCHAR(200) NOT NULL,
    renting_cost INT          NOT NULL
);
```

5. جدول تصاویر ویلا:

```sql
CREATE TABLE villa_image
(
    villa_id  int,
    image_url VARCHAR(100) NOT NULL,
    FOREIGN KEY (villa_id) REFERENCES villa(id)
);
```

6. جدول هتل:

```sql
CREATE TABLE hotel
(
    id           INT          NOT NULL AUTO_INCREMENT PRIMARY KEY,
    name         VARCHAR(80)  NOT NULL,
    description  VARCHAR(300) NOT NULL,
    address      VARCHAR(300) NOT NULL,
    stars_count  TINYINT      NOT NULL
);
```

7. جدول تصاویر هتل:

```sql
CREATE TABLE hotel_image
(
    hotel_id  int,
    image_url VARCHAR(100) NOT NULL,
    FOREIGN KEY (hotel_id) REFERENCES hotel(id)
);
```

8. جدول شماره تلفن های هتل:

```sql
CREATE TABLE hotel_phone_number
(
    hotel_id     int,
```

```
    phone_number VARCHAR(15) NOT NULL,
    FOREIGN KEY (hotel_id) REFERENCES hotel(id)
);
```

9. جدول اتاق هتل:

```
CREATE TABLE hotel_room
(
    id          INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    hotel_id    INT         NOT NULL,
    type        SMALLINT    NOT NULL,
    price       INT         NOT NULL,
    description VARCHAR(300) NOT NULL,
    FOREIGN KEY (hotel_id) REFERENCES hotel(id)
);
```

10. جدول تور:

```
CREATE TABLE tour
(
    id          INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    name        VARCHAR(80)  NOT NULL,
    description VARCHAR(300) NOT NULL
);
```

11. جدول خط هوایی:

```
CREATE TABLE airline
(
    id   INT         NOT NULL PRIMARY KEY,
    name VARCHAR(50) NOT NULL
);
```

12. جدول مبدا خط هوایی:

```
CREATE TABLE airline_origin
(
    name           VARCHAR(50) NOT NULL PRIMARY KEY,
    origin_country VARCHAR(30) NOT NULL
);
```

13. جدول مدل هواپیما:

```sql
CREATE TABLE airplane_model
(
    model_name  VARCHAR(50) NOT NULL PRIMARY KEY,
    seats_count SMALLINT    NOT NULL
);
```

14. جدول هواپیما:

```sql
CREATE TABLE airplane
(
    id          INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    airline_id  INT         NOT NULL,
    model       VARCHAR(50) NOT NULL,
    FOREIGN KEY (airline_id) REFERENCES airline(id),
    FOREIGN KEY (model) REFERENCES airplane_model(model_name)
);
```

15. جدول شرکت ریلی:

```sql
CREATE TABLE rail_company
(
    id                      INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    name                    VARCHAR(80) NOT NULL,
    daily_trips             INT         NOT NULL,
    max_allowed_daily_trips INT         NOT NULL
);
```

16. جدول مدل قطار:

```sql
CREATE TABLE train_model
(
    model_name  VARCHAR(50) NOT NULL PRIMARY KEY,
    seats_count SMALLINT    NOT NULL
);
```

17. جدول قطار:

```sql
CREATE TABLE train
(
    id              INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    rail_company_id INT         NOT NULL,
    model           VARCHAR(50) NOT NULL,
    FOREIGN KEY (rail_company_id) REFERENCES rail_company(id),
```

```sql
    FOREIGN KEY (model) REFERENCES train_model(model_name)
);
```

<div dir="rtl">

18. جدول صندلی قطار:

</div>

```sql
CREATE TABLE train_seat
(
    id          INT       NOT NULL AUTO_INCREMENT PRIMARY KEY,
    train_id    INT       NOT NULL,
    price       INT       NOT NULL,
    seat_number SMALLINT NOT NULL,
    FOREIGN KEY (train_id) REFERENCES train(id)
);
```

<div dir="rtl">

19. جدول رزرو ویلا:

</div>

```sql
CREATE TABLE villa_reservation
(
    id                  INT       NOT NULL AUTO_INCREMENT PRIMARY KEY,
    user_id             INT       NOT NULL,
    villa_id            INT       NOT NULL,
    discount_code       VARCHAR(50),
    entry_datetime      DATETIME NOT NULL,
    departure_datetime DATETIME NOT NULL,
    cancel_datetime     DATETIME,
    FOREIGN KEY (user_id) REFERENCES users(id),
    FOREIGN KEY (villa_id) REFERENCES villa(id),
    FOREIGN KEY (discount_code) REFERENCES discount_code(code)
);
```

<div dir="rtl">

20. جدول رزرو هتل:

</div>

```sql
CREATE TABLE hotel_reservation
(
    id                  INT         NOT NULL IDENTITY(1,1) PRIMARY KEY,
    user_id             INT         NOT NULL FOREIGN KEY REFERENCES users(id),
    discount_code       VARCHAR(50) FOREIGN KEY REFERENCES discount_code(code),
    price               INT         NOT NULL,
    entry_datetime      DATETIME NOT NULL,
    departure_datetime DATETIME NOT NULL,
    cancel_datetime     DATETIME,
);
```

21. جدول رزرو اتاق هتل:

```sql
CREATE TABLE hotel_room_reservation
(
    reservation_id INT NOT NULL,
    room_id        INT NOT NULL,
    FOREIGN KEY (reservation_id) REFERENCES hotel_reservation(id),
    FOREIGN KEY (room_id) REFERENCES hotel_room(id)
);
```

22. جدول رزرو تور:

```sql
CREATE TABLE tour_reservation
(
    id               INT       NOT NULL AUTO_INCREMENT PRIMARY KEY,
    user_id          INT       NOT NULL,
    tour_id          INT       NOT NULL,
    people_count     SMALLINT  NOT NULL,
    total_price      INT       NOT NULL,
    reserve_datetime DATETIME  NOT NULL,
    cancel_datetime  DATETIME,
    FOREIGN KEY (user_id) REFERENCES users(id),
    FOREIGN KEY (tour_id) REFERENCES tour(id)
);
```

23. جدول بلیط هواپیما :

```sql
CREATE TABLE airplane_ticket
(
    id                     INT         NOT NULL AUTO_INCREMENT PRIMARY KEY,
    airplane_id            INT         NOT NULL,
    origin_country         VARCHAR(30) NOT NULL,
    destination_country    VARCHAR(30) NOT NULL,
    price                  INT         NOT NULL,
    seat_id                VARCHAR(10) NOT NULL,
    flight_datetime        DATETIME    NOT NULL,
    return_flight_datetime DATETIME,
    FOREIGN KEY (airplane_id) REFERENCES airplane(id)
);
```

24. جدول رزرو پرواز:

```sql
CREATE TABLE flight_reservation
(
    id         INT       NOT NULL AUTO_INCREMENT PRIMARY KEY,
    user_id    INT       NOT NULL,
    ticket_id  INT       NOT NULL,
```

```sql
    discount_code     VARCHAR(50),
    flight_type       SMALLINT NOT NULL,
    reserve_datetime DATETIME NOT NULL,
    cancel_datetime   DATETIME,
    FOREIGN KEY (user_id) REFERENCES users(id),
    FOREIGN KEY (ticket_id) REFERENCES airplane_ticket(id),
    FOREIGN KEY (discount_code) REFERENCES discount_code(code)
);
```

25. جدول بلیط قطار:

```sql
CREATE TABLE train_ticket
(
    id                  INT          NOT NULL AUTO_INCREMENT PRIMARY KEY,
    train_id            INT          NOT NULL,
    seat_id             INT          NOT NULL,
    origin              VARCHAR(30) NOT NULL,
    destination         VARCHAR(30) NOT NULL,
    price               INT          NOT NULL,
    departure_datetime DATETIME     NOT NULL,
    cancel_datetime     DATETIME,
    FOREIGN KEY (train_id) REFERENCES train(id),
    FOREIGN KEY (seat_id) REFERENCES train_seat(id)
);
```

26. جدول رزرو قطار:

```sql
CREATE TABLE train_reservation
(
    id                  INT          NOT NULL AUTO_INCREMENT PRIMARY KEY,
    user_id             INT          NOT NULL ,
    ticket_id           INT          NOT NULL ,
    discount_code       VARCHAR(50) ,
    flight_type         SMALLINT NOT NULL,
    reserve_datetime DATETIME NOT NULL,
    cancel_datetime     DATETIME,
    FOREIGN KEY (user_id) REFERENCES users(id),
    FOREIGN KEY (ticket_id) REFERENCES train_ticket(id),
    FOREIGN KEY (discount_code) REFERENCES discount_code(code)
);
```