Entities:

- Admin

- User

- Category

- Package

- AddPackage

- Booking

- Payment

Entity Descriptions

Entity	Description
tbladmin	Stores admin credentials
tbluser	Stores gym member details
tblcategory	Category types for packages (e.g., Fitness, Weight Loss)
tblpackage	Basic packages under a category
tbladdpackage	Detailed packages including images, duration, price
tblbooking	Records of users booking packages
tblpayment	Payments made for bookings

Relationships

Relationship	Cardinality	Description
User → Booking	1:N	A user can have multiple bookings
Booking → Payment	1:1	A booking has one payment
Category → Package	1:N	A category can contain multiple packages
Package → AddPackage	1:N	A package can be enhanced with multiple detailed versions (addpackage)

Business Rules (Detailed)

A user must register before booking.

A booking must be tied to a package and a user.

Each booking must have one associated payment.

Packages must belong to a category.

Admin manages creation of categories, packages, and users.

Multiple add-on versions of a package may exist (detailed package info).

Each package has details like price, duration, type, and image.

Primary and Foreign Keys

Table	Primary Key	Foreign Keys
tbladmin	id	—
tbluser	id	—
tblcategory	id	—
tblpackage	id	cate_id → tblcategory(id) (assumed FK, not declared)
tbladdpackage	id	category → tblcategory.category_name (not normalized)
tblbooking	id	userid → tbluser(id), package_id → tbladdpackage(id) (assumed)
tblpayment	id	bookingID → tblbooking(id)

Attributes (Per Table)

tbluser

fname, lname, email, mobile, password, state, city, address

tbladmin

name, email, mobile, password

tblcategory

category_name, status

tblpackage

cate_id, PackageName

tbladdpackage

category, titlename, PackageType, PackageDuratiobn, Price, uploadphoto, Description

tblbooking

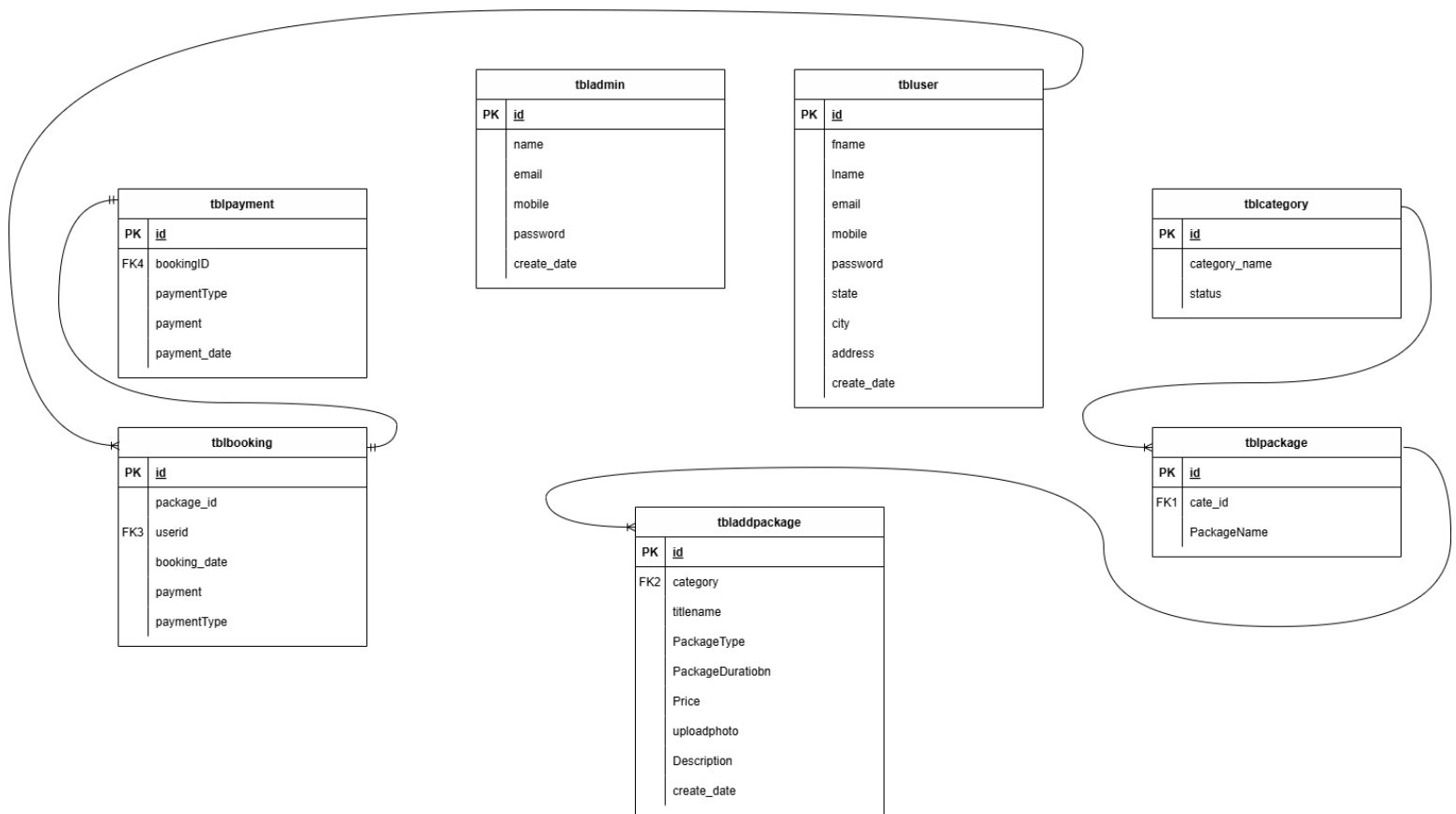package_id, userid, booking_date, payment, paymentType

tblpayment

bookingID, paymentType, payment, payment_date

Strong & Weak Entities

Type	Entity	Reason
Strong	User, Admin, Category, Package	Have independent primary keys
Weak	Payment	Depends on Booking (should reference Booking ID)

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tbladmin

PK	id
	name
	email
	mobile
	password
	create_date

tbluser

PK	id
	fname
	lname
	email
	mobile
	password
	state
	city
	address
	create_date

tblcategory

PK	id
	category_name
	status

tblpayment

PK	id
FK4	bookingID
	paymentType
	payment
	payment_date

tblbooking

PK	id
	package_id
FK3	userid
	booking_date
	payment
	paymentType

tbladdpackage

PK	id
FK2	category
	titlename
	PackageType
	PackageDuratiobn
	Price
	uploadphoto
	Description
	create_date

tblpackage

PK	id
FK1	cate_id
	PackageName

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SQL Code:

CREATE TABLE `tbladdpackage` (

 `id` int(11) NOT NULL AUTO_INCREMENT,

 `category` varchar(45) DEFAULT NULL,

 `titlename` varchar(450) DEFAULT NULL,

```sql
  `PackageType` varchar(45) DEFAULT NULL,

  `PackageDuratiobn` varchar(45) DEFAULT NULL,

  `Price` varchar(45) DEFAULT NULL,

  `uploadphoto` varchar(450) DEFAULT NULL,

  `Description` varchar(450) DEFAULT NULL,

  `create_date` timestamp NULL DEFAULT current_timestamp(),

  PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


CREATE TABLE `tbladmin` (

  `id` int(11) NOT NULL AUTO_INCREMENT,

  `name` varchar(45) DEFAULT NULL,

  `email` varchar(45) DEFAULT NULL,

  `mobile` varchar(45) DEFAULT NULL,

  `password` varchar(100) DEFAULT NULL,

  `create_date` timestamp NULL DEFAULT current_timestamp(),

  PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


CREATE TABLE `tblbooking` (

  `id` int(11) NOT NULL AUTO_INCREMENT,

  `package_id` varchar(45) DEFAULT NULL,

  `userid` varchar(45) DEFAULT NULL,

  `booking_date` timestamp NULL DEFAULT current_timestamp(),

  `payment` varchar(45) DEFAULT NULL,

  `paymentType` varchar(45) DEFAULT NULL,

  PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```sql
CREATE TABLE `tblcategory` (

 `id` int(11) NOT NULL AUTO_INCREMENT,

 `category_name` varchar(45) DEFAULT NULL,

 `status` varchar(45) DEFAULT '0',

 PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


CREATE TABLE `tblpackage` (

 `id` int(11) NOT NULL AUTO_INCREMENT,

 `cate_id` varchar(45) DEFAULT NULL,

 `PackageName` varchar(45) DEFAULT NULL,

 PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


CREATE TABLE `tblpayment` (

 `id` int(11) NOT NULL AUTO_INCREMENT,

 `bookingID` varchar(45) DEFAULT NULL,

 `paymentType` varchar(45) DEFAULT NULL,

 `payment` varchar(45) DEFAULT NULL,

 `payment_date` timestamp NULL DEFAULT current_timestamp(),

 PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


CREATE TABLE `tbluser` (

 `id` int(11) NOT NULL AUTO_INCREMENT,

 `fname` varchar(45) DEFAULT NULL,

 `lname` varchar(45) DEFAULT NULL,

 `email` varchar(45) DEFAULT NULL,

 `mobile` varchar(45) DEFAULT NULL,
```

```
  `password` varchar(100) DEFAULT NULL,

  `state` varchar(45) DEFAULT NULL,

  `city` varchar(45) DEFAULT NULL,

  `address` varchar(200) DEFAULT NULL,

  `create_date` timestamp NULL DEFAULT current_timestamp(),

  PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```