Amusement Park Management System

ID: 17.02.05.035

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We have ensured up to 3rd normalization in the tables of our database. 13 tables of our database are mentioned below with necessary information.

1. Visitor_Info:

visitor id	visitor_name	visitor_phone	visitor_gender	visitor_age

In this table we are storing the information of the visitors who are visiting the park. Here, visitor_id is our primary key.

2. Payout_Amount:

staff designation	staff_salary

From this table, we can fetch the information about the salary amount of a specific designation of the staff. The primary key in this table is staff_designation.

```
CREATE TABLE Payout_Amount(
    staff_designation varchar(20) PRIMARY KEY,
    staff_salary int NOT NULL
)
```

3. Staff_Info

staff_id	staff_name	staff_phone	staff_gender	staff_age	staff_address	staff_designation	region_no

In this table we are storing the information about the staff working at the park. Here, staff_id is our primary key, staff_designation is a foreign key from the table Payout Amount.

4. Parking_Info

license_no	vehicle_type	time_of_parking	garage_section_no

In this table we are storing the information about the vehicles that are parked in the parking area of the park. The primary key is license no.

5. Visitor_Vehicle:

<u>visitor_id</u>	license_no

The primary is visitor id and license no is foreign from Parking Info.

```
CREATE TABLE Visitor_Vehicle(
    visitor_id int PRIMARY KEY,
    license_no varchar(10) NOT NULL
    FOREIGN KEY REFERENCES Parking_Info(license_no),
)
```

6. Ride_Info

<u>ride_id</u>	ride_name	region_no	ticket_price	age_limit

The information stored here is about the individual rides. Primary key is ride_id.

```
CREATE TABLE Ride_info(
    ride_id int IDENTITY(1,1) PRIMARY KEY,
    ride_name varchar(20) NOT NULL,
    region_no int NOT NULL,
    ticket_price int NOT NULL,
    age_limit int NOT NULL
)
```

7. Food Info

food id	food_name	food_price

The information about the foods that are served in the canteen area of the park can be found here. The primary key in this table is food id.

```
CREATE TABLE Food_Info(
food_id int IDENTITY(1,1) PRIMARY KEY,
food_name varchar(30) NOT NULL,
food_price int NOT NULL,
)
```

8. Food_Counter

order sl no	visitor_id	food_id	no_of_food	total_food_price	food_sold_date

The food order given by any visitor is stored in this table. The primary key is order_sl_no. The foreign keys here are visitor id from Visitor Info, food id from Food Info.

```
CREATE TABLE Food_Counter(
    order_sl_no INT IDENTITY(1,1) PRIMARY KEY,
    visitor_id int NOT NULL
        FOREIGN KEY REFERENCES Visitor_Info(visitor_id),
    food_id int NOT NULL
        FOREIGN KEY REFERENCES Food_Info(food_id),
    no_of_food int NOT NULL,
    total_food_price int NOT NULL,
    food_sold_date varchar(20) NOT NULL
)
```

9. Entry_Ticket_Counter

eticket sl no	visitor_id	no_of_etickets	total_eticket_price	eticket_sold_time	eticket_type

In this table we are storing the information about the tickets the visitor is buying for entering the park. The primary key in this table is eticket_sl_no. The foreign key visitor_id is from Visitor_Info. The foreign key eticket_type is from Entry_Ticket_type.

```
CREATE TABLE Entry_Ticket_counter (
    eticket_sl_no INT IDENTITY(1,1) PRIMARY KEY,
    visitor_id int NOT NULL
        FOREIGN KEY REFERENCES Visitor_Info(visitor_id),
    no_of_etickets int NOT NULL,
    total_eticket_price int NOT NULL,
    eticket_sold_time varchar(20) NOT NULL
    eticket_type varchar(20) NOT NULL
    FOREIGN KEY REFERENCES Entry_Ticket_type(eticket_type),
)
```

10. Ride_Ticket_Counter

rticket sl_no	visitor_id	ride_id	no_of_rtickets	total_rticket_price	rticket_sold_time

In this table we are storing the information about the tickets the visitor is buying for riding any ride. The primary key in this table is eticket_sl_no. The foreign keys are visitor_id from Visitor_Info, ride_id from Ride_Info.

11. Feedback

feedback_sl_no	visitor_id	feedback_time	visitor_rating	comments

We are storing the feedback of the visitors in this table. The primary key is feedback_sl_no. Foreign key is visitor_id from Visitor_Info.

12. Service_region

service name	region_no

From this table we can know the service provided by a specific region. Primary key here is service_name.

```
CREATE TABLE Service_Region(
    service_name varchar(20) PRIMARY KEY,
    region_no int NOT NULL
)

13.Entry_Ticket_type:
```

eticket type	eticket_price

In this table we are storing the information about the ticket's price according to different offers and packages.

```
CREATE TABLE Entry_Ticket_type (
        eticket_type varchar(20) PRIMARY KEY NOT NULL,
        eticket_price int NOT NULL
)
```

The entity relationship diagram of our project is given below:

