Universal Orlando Theme Park Database Documentation

Project Overview

This project simulates a relational database for managing operations at Universal Orlando, including rides, attractions, employees, visitors, tickets, food & beverage, merchandise, park zones, maintenance schedules, and special events. The database is built using MySQL.

Schema Design

The database consists of the following tables:

-Rides

-Attractions

-Employees

-Visitors

-Tickets

-Food and Beverage

-Merchandise

-Park Zones

-Maintenance Schedule

-Special Events

Entity Relationships

Key relationships include:

-Each employee is assigned to one ride.

-Each ticket is linked to a visitor.

-Maintenance entries are associated with a ride.

CRUD Operations

Examples of Create, Read, Update, and Delete operations:

```
INSERT INTO Rides VALUES (1, 'Velocicoaster', 'Roller Coaster', 5, 52);
UPDATE Visitors SET age = '19' WHERE VisitorID = 9;
DELETE FROM Attractions WHERE AttractionID = 8;
```

Example Select Queries

1. Retrieve visitors and their ticket types and prices:

```
SELECT Visitors.name, Tickets.type, Tickets.price
FROM Visitors JOIN Tickets ON Visitors.VisitorID = Tickets.VisitorID;
```

2. Show employees and their assigned rides:

```
SELECT Employees.name, Employees.role, Rides.name AS Ride
FROM Employees JOIN Rides ON Employees.AssignedRideID = Rides.RideID;
```

3. View visitor names and associated attractions:

SELECT Visitors.Name, Attractions.Name AS Attraction, Attractions.Location

FROM Visitors

JOIN Tickets ON Visitors.VisitorID = Tickets.VisitorID

JOIN Attractions ON Tickets.TicketID = Attractions.AttractionID;

ER Diagram: