

# DATABASE MANAGEMENT PROJECT WITH JAVA VEHICLE RENTAL SYSTEM

## JDBC CONNECTION:

```
public VehicleRentalSystem() {  
  
    // Establish the database connection  
    try {  
        Class.forName("com.mysql.cj.jdbc.Driver");  
        connection =  
DriverManager.getConnection("jdbc:mysql://localhost:3306/vehicle_rental", "root",  
"janu0309");  
        System.out.println("Database connected successfully.");  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
}
```

## SQL QUERIES:

```
CREATE DATABASE vehicle_rental;
```

```
USE vehicle_rental;
```

```
CREATE TABLE admin (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    username VARCHAR(50) NOT NULL UNIQUE,  
    password VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE vehicles (  
    id INT AUTO_INCREMENT PRIMARY KEY,
```

```
name VARCHAR(100) NOT NULL,  
status VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE customers (  
id INT AUTO_INCREMENT PRIMARY KEY,  
name VARCHAR(100) NOT NULL,  
contact VARCHAR(50) NOT NULL,  
email VARCHAR(100) NOT NULL  
);
```

```
CREATE TABLE reservations (  
id INT AUTO_INCREMENT PRIMARY KEY,  
customer_id INT,  
vehicle_id INT,  
start_date DATE,  
end_date DATE,  
FOREIGN KEY (customer_id) REFERENCES customers(id),  
FOREIGN KEY (vehicle_id) REFERENCES vehicles(id)  
);
```

```
CREATE TABLE maintenance (  
id INT AUTO_INCREMENT PRIMARY KEY,  
vehicle_id INT,  
issue VARCHAR(255) NOT NULL,  
date DATE,  
FOREIGN KEY (vehicle_id) REFERENCES vehicles(id)  
);
```

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