# Vehicle Management System: Database Table Structure

## Users

|  |  |
| --- | --- |
| Column Name | Data Type |
| user\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| username | VARCHAR(255) |
| password | VARCHAR(255) |
| role | ENUM("admin", "mechanic", "user") |
| contact\_info | VARCHAR(255) |

## Vehicles

|  |  |
| --- | --- |
| Column Name | Data Type |
| vehicle\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| user\_id | INT |
| make | VARCHAR(255) |
| model | VARCHAR(255) |
| year | INT |
| vin | VARCHAR(255) |

## Mechanics

|  |  |
| --- | --- |
| Column Name | Data Type |
| mechanic\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| user\_id | INT |
| expertise | VARCHAR(255) |
| availability | TEXT |
| experience | VARCHAR(255) |

## Services

|  |  |
| --- | --- |
| Column Name | Data Type |
| service\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| vehicle\_id | INT |
| user\_id | INT |
| mechanic\_id | INT |
| service\_type | VARCHAR(255) |
| description | TEXT |
| status | ENUM("requested", "in\_progress", "completed") |
| date\_requested | DATE |
| date\_completed | DATE |

## Service\_History

|  |  |
| --- | --- |
| Column Name | Data Type |
| history\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| service\_id | INT |
| details | TEXT |
| parts\_used | TEXT |
| cost | DECIMAL(10, 2) |

## Feedback

|  |  |
| --- | --- |
| Column Name | Data Type |
| feedback\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| user\_id | INT |
| service\_id | INT |
| rating | INT |
| comments | TEXT |

## Reports

|  |  |
| --- | --- |
| Column Name | Data Type |
| report\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| admin\_id | INT |
| content | TEXT |
| date\_generated | DATE |

## Messages

|  |  |
| --- | --- |
| Column Name | Data Type |
| message\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| sender\_id | INT |
| receiver\_id | INT |
| content | TEXT |
| timestamp | TIMESTAMP |

## Notifications

|  |  |
| --- | --- |
| Column Name | Data Type |
| notification\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| user\_id | INT |
| message | TEXT |
| date\_sent | DATE |
| status | ENUM("read", "unread") |

## Locations

|  |  |
| --- | --- |
| Column Name | Data Type |
| location\_id | INT PRIMARY KEY AUTO\_INCREMENT |
| Location\_name | TEXT |