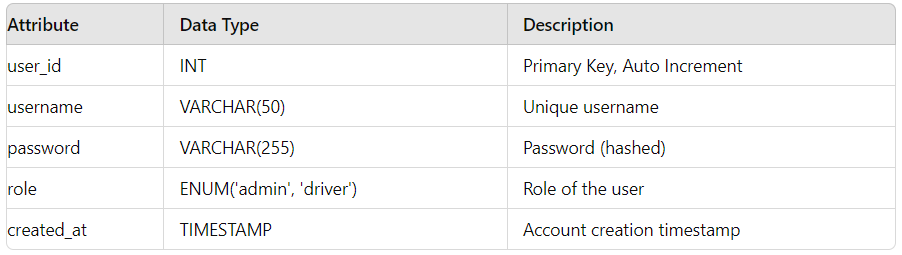
**Database Schema for Traffic Offence Reporting and Resolution Platform**

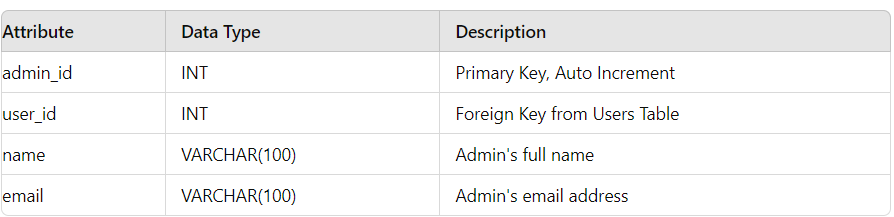
#### 1. Users Table

This table stores the basic information of all users (both admins and drivers).



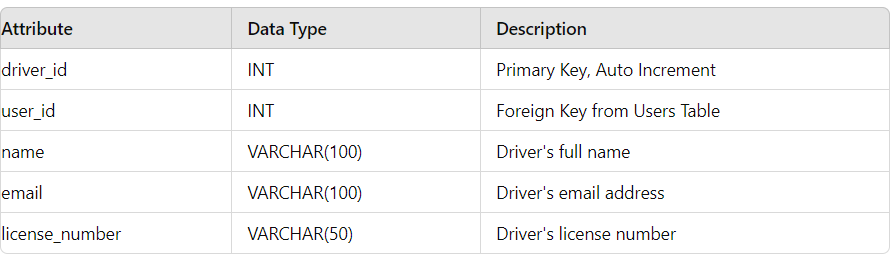
#### 2. Admins Table

This table stores additional information specific to admin users.



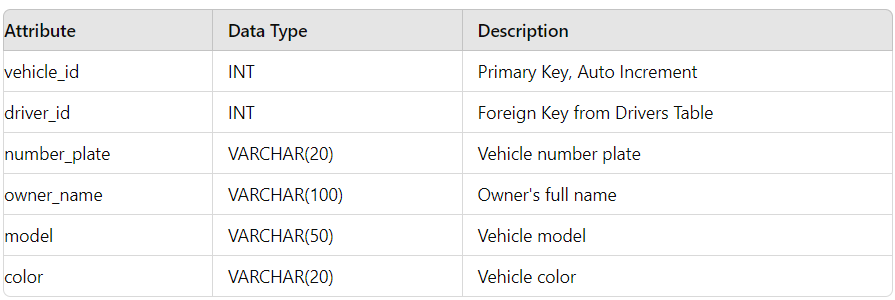
#### 3. Drivers Table

This table stores additional information specific to driver users.



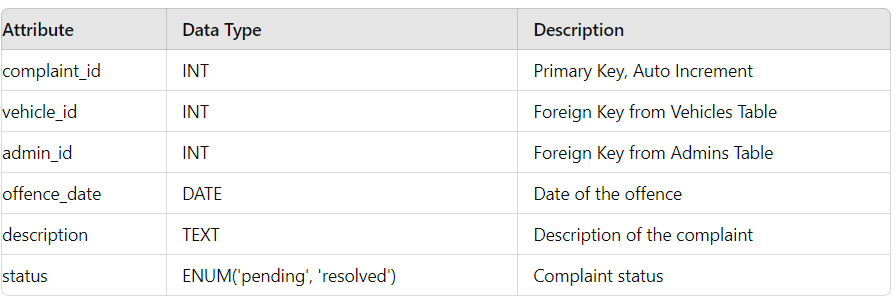
#### 4. Vehicles Table

This table stores information about the vehicles owned by drivers.



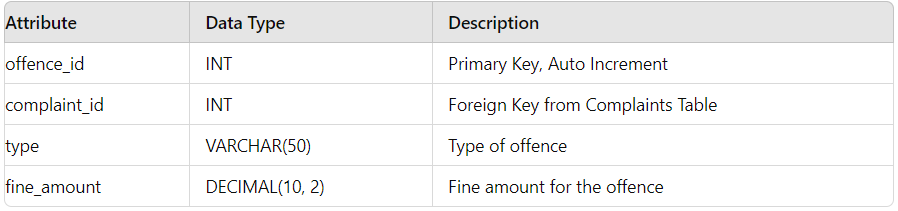
#### 5. Complaints Table

This table stores complaints reported by admins against vehicles.



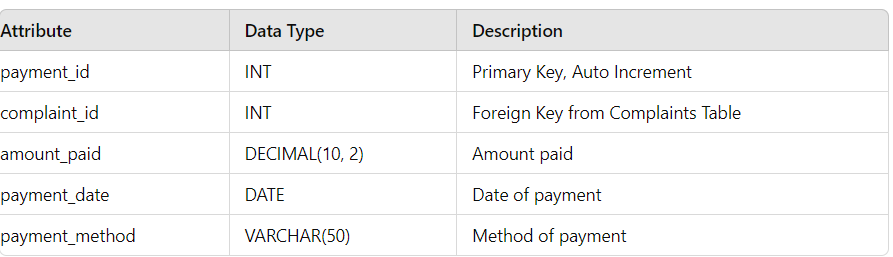
#### 6. Offences Table

This table stores details of the specific offences related to a complaint.



#### 7. Payments Table

This table tracks the payments made by drivers to resolve complaints.



### Relationships and Diagram

- \*\*Users and Admins/Drivers\*\*: The `Users` table connects to both the `Admins` and `Drivers` tables through the `user\_id` attribute.

- \*\*Drivers and Vehicles\*\*: Each driver can own multiple vehicles, linked through the `driver\_id` attribute in the `Vehicles` table.

- \*\*Vehicles and Complaints\*\*: Each vehicle can have multiple complaints, recorded in the `Complaints` table and linked via the `vehicle\_id` attribute.

- \*\*Complaints and Offences\*\*: Each complaint can consist of multiple offences, detailed in the `Offences` table and linked via the `complaint\_id` attribute.

- \*\*Complaints and Payments\*\*: Each complaint can have multiple payments, tracked in the `Payments` table and linked via the `complaint\_id` attribute.

```plaintext

+-----------+ +--------+ +-----------+

| Users | | Admins | | Drivers |

+-----------+ +--------+ +-----------+

| user\_id |---------| user\_id| | user\_id |

| username | | name | | name |

| password | | email | | email |

| role | +--------+ | license\_number|

| created\_at| +-----------+

+-----------+

+-----------+ +-------------+

| Vehicles | | Complaints |

+-----------+ +-------------+

| vehicle\_id | | complaint\_id|

| driver\_id |------------| vehicle\_id |

| number\_plate| | admin\_id |

| owner\_name | | offence\_date|

| model | | description |

| color | | status |

+-----------+ +-------------+

+------------+

| Offences |

+------------+

| offence\_id |

| complaint\_id|

| type |

| fine\_amount |

+------------+

+-------------+

| Payments |

+-------------+

| payment\_id |

| complaint\_id |

| amount\_paid |

| payment\_date |

| payment\_method|

+-------------+

```

### Explanation:

1. \*\*Users Table\*\*:

- Stores user credentials and roles.

2. \*\*Admins and Drivers Tables\*\*:

- Store additional details specific to admins and drivers.

3. \*\*Vehicles Table\*\*:

- Stores vehicle information, linked to drivers.

4. \*\*Complaints Table\*\*:

- Stores complaints against vehicles, linked to admins and vehicles.

5. \*\*Offences Table\*\*:

- Stores details of offences for each complaint.

6. \*\*Payments Table\*\*:

- Tracks payments made for resolving complaints.