RTO Management System Database

1. User Management Tables

- **Users**
  Stores information about the system users (staff, administrators, etc.)
  - `user_id` (Primary Key)
  - `first_name`
  - `middle_name`
  - `last_name`
  - `email`
  - `phone_number`
  - `address`
  - `username`
  - `password`
  - `status` (active/inactive)

2. **Profile Update**

  - `user_id` (Primary Key)
  - `first_name`
  - `middle_name`
  - `last_name`
  - `dob` (Date of Birth)
  - `address`
  - `phone_number`
  - `email`
  - `blood_group`
  - `photo`
  - `license_status` (active/inactive)

3. License & Driver Management Tables

- **Driving_Licenses**

  Stores details about issued licenses.

  - `license_id` (Primary Key)
  - `user_id` (Foreign Key referencing `Drivers`)
  - `license_type` (Private, Commercial, etc.)
  - `issue_date`
  - `expiry_date`
  - `license_number`
  - `vehicle_type` (Bike, Car, etc.)
  - `status` (active/inactive)

- **Learner_Licenses**

  Stores information about learner's licenses.

  - `learner_id` (Primary Key)
  - `user_id` (Foreign Key referencing `Drivers`)
  - `issue_date`
  - `expiry_date`
  - `status` (active/inactive)

3. Vehicle Registration Tables

- **Vehicle_Registrations**

  Details of the vehicle registration process.

  - `registration_id` (Primary Key)
  - `vehicle_id` (Foreign Key referencing `Vehicles`)
  - `user_id` (Foreign Key referencing `Drivers`)
  - `registration_date`
  - `expiry_date`
  - `registration_number`
  - `status` (active/inactive)

4. Fees and Payments

- **Payments**
  Stores details about payments made for licenses, registrations, or fines.
    - `payment_id` (Primary Key)
    - `user_id` (Foreign Key referencing `Users`)
    - `payment_amount`
    - `payment_date`
    - `payment_method` (Cash, Card, Online)
    - `transaction_id`
    - `payment_status`
- **Fee_Schedules**
  Stores the fee structure for various services (license, registration, etc.).
    - `fee_id` (Primary Key)
    - `service_name` (License Renewal, Vehicle Registration, etc.)
    - `fee_amount`
    - `service_category` (Driver's License, Vehicle Registration)

5. Insurance Table

- **Insurance**
  Stores insurance details for vehicles.
    - `insurance_id` (Primary Key)
    - `vehicle_id` (Foreign Key referencing `Vehicles`)
    - `insurance_company`
    - `policy_number`
    - `expiry_date`
    - `premium_amount`

6 . Driving Test Appointment

This component will manage the scheduling and status of driving tests for individuals applying for a driving license.

Driving_Test_Appointment:

- **`appointment_id`** (Primary Key)
  Unique identifier for the driving test appointment.
- **`driver_id`** (Foreign Key referencing Drivers)
  Refers to the driver who is scheduled for the test.
- **`test_date`** (DATE)
  The date when the driving test is scheduled.

- **test_time** (TIME)
  The time when the driving test is scheduled.
- **test_type** (VARCHAR)
  Type of the test (e.g., Written, Practical, etc.).
- **location** (VARCHAR)
  The location where the driving test will take place.
- **instructor_id** (Foreign Key referencing Users)
  The instructor assigned to conduct the test.
- **status** (VARCHAR)
  Status of the test (e.g., Scheduled, Completed, Cancelled).

7. Driving License Renewal

This component will manage the process of renewing a driver's license.

License_Renewal:

- **renewal_id** (Primary Key)
  Unique identifier for the license renewal request.
- **driver_id** (Foreign Key referencing Drivers)
  Refers to the driver who is renewing the license.
- **license_id** (Foreign Key referencing Driving_Licenses)
  The current license that is being renewed.
- **renewal_date** (DATE)
  The date when the renewal request was made.
- **expiry_date** (DATE)
  The new expiry date for the renewed license.
- **status** (VARCHAR)
  Status of the renewal (e.g., Pending, Completed, Approved, Rejected).
- **payment_id** (Foreign Key referencing Payments)
  The payment made for the renewal process (if applicable).