**SQL COMMANDS**

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| **Create database** | CREATE DATABASE `car`; |
| **Create customers table** | CREATE TABLE IF NOT EXISTS `customers`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) NOT NULL,  `phone` INT(11) UNIQUE NULL,  `email` VARCHAR(100) UNIQUE NOT NULL,  `image` VARCHAR(255) DEFAULT 'default.png',  `password` VARCHAR(255) NOT NULL,  `admin\_id` INT(10) UNSIGNED NULL,  `payment\_id` INT(10) UNSIGNED NOT NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **Create admins table** | CREATE TABLE IF NOT EXISTS `admins`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) NOT NULL,  `phone` INT(11) UNIQUE NULL,  `email` VARCHAR(100) UNIQUE NOT NUll,  `image`VARCHAR(255) DEFAULT 'default.png',  `password` VARCHAR(255) NOT NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **Create customers payments** | CREATE TABLE IF NOT EXISTS `payments`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) UNIQUE NOT NULL,  `status` TINYINT(1) DEFAULT 1 COMMENT '1:Available ,0:Not available',  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **Create bookings table** | CREATE TABLE IF NOT EXISTS `bookings`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `code` VARCHAR(50) UNIQUE NOT NULL,  `hired\_at` TIMESTAMP NOT NULL,  `returned\_at` TIMESTAMP NOT NULL,  `customer\_id` INT(10) UNSIGNED NULL,  `vehicle\_id` INT(10) UNSIGNED NOT NULL,  `admin\_id` INT(10) UNSIGNED NULL,  `invoice\_id` INT(10) UNSIGNED NOT NULL,    `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **Create invoices table** | CREATE TABLE IF NOT EXISTS `invoices`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `code` VARCHAR(50) UNIQUE NOT NULL,  `hire\_price` DECIMAL(10,1) NOT NULL,  `add\_charges`DECIMAL(5,2) NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **Create vehicles table** | CREATE TABLE IF NOT EXISTS `vehicles`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `automatic` TINYINT(1) NOT NULL COMMENT '1:Automatic,0:Manual',  `airconditionar` TINYINT(1) NOT NULL COMMENT '1:Have Airconditioner,0:No airconditioner',  `code` VARCHAR(50) UNIQUE NOT NULL,  `model` VARCHAR(50) NOT NULL,  `year` INT(10) UNSIGNED NOT NULL,  `status` TINYINT(1) DEFAULT 1 COMMENT '1:Avaliable,0:Not avilable',  `brand\_id` INT(10) UNSIGNED NOT NULL,  `admin\_id` INT(10) UNSIGNED NULL,  `category\_id` INT(10) UNSIGNED NOT NULL,  `location\_id` INT(10) UNSIGNED NOT NULL,  `owner\_id` INT(10) UNSIGNED NOT NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **create vehicleImages table** | CREATE TABLE IF NOT EXISTS `vehicleImages`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) NOT NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,  `vehicle\_id` INT(10) UNSIGNED NOT NULL  ) |
| **create locations table** | CREATE TABLE IF NOT EXISTS `locations`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) UNIQUE NOT NULL,  `status` TINYINT(1) DEFAULT 1 COMMENT '1:Active,0:Not active',  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **create owners table** | CREATE TABLE IF NOT EXISTS `owners`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) NOT NULL,  `password` VARCHAR(255) NOT NULL,  `phone` INT(11) UNIQUE NOT NULL,  `email` VARCHAR(100) UNIQUE NUll,  `image`VARCHAR(255) DEFAULT 'default.png',  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **create brands table** | CREATE TABLE IF NOT EXISTS `brands`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) UNIQUE NOT NULL,  `image`VARCHAR(255) NOT NULL,  `status` TINYINT(1) DEFAULT 1 COMMENT '1:Active,0:Not active',  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **create categories table** | CREATE TABLE IF NOT EXISTS `categories`(  `id` INT(10) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  `name` VARCHAR(255) UNIQUE NOT NULL,  `no\_of\_passengers` TINYINT(1) NOT NULL,  `status` TINYINT(1) DEFAULT 1 COMMENT '1:Active,0:Not active',  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |
| **create reviews table** | CREATE TABLE IF NOT EXISTS `reviews`(  `comment` VARCHAR(255) NULL,  `rate` TINYINT(1) DEFAULT 1 COMMENT '1:Low rate,5:Heigh rate',  `vehicle\_id` INT(10) UNSIGNED NOT NULL,  `customer\_id` INT(10) UNSIGNED NOT NULL,  `created\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  `updated\_at` TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP  ) |

**SQl commands to create relations**

vehiclesRelations='''Alter TABLE `vehicles`

Add CONSTRAINT `FK\_brandvehicle` FOREIGN KEY(`brand\_id`) REFERENCES `brands`(`id`) ON UPDATE CASCADE ON DELETE CASCADE,

ADD CONSTRAINT `FK\_adminvehicle` FOREIGN KEY(`admin\_id`) REFERENCES `admins`(`id`) ON UPDATE CASCADE ON DELETE CASCADE,

ADD CONSTRAINT `FK\_categoryvehicle` FOREIGN KEY(`category\_id`) REFERENCES `categories`(`id`) ON UPDATE CASCADE ON DELETE CASCADE,

ADD CONSTRAINT `FK\_locationvehicle` FOREIGN KEY(`location\_id`) REFERENCES `locations`(`id`) ON UPDATE CASCADE ON DELETE CASCADE,

ADD CONSTRAINT `FK\_ownervehicle` FOREIGN KEY(`owner\_id`) REFERENCES `owners`(`id`) ON UPDATE CASCADE ON DELETE CASCADE'''

vehicleImagesRelations='''ALTER TABLE `vehicleImages`

ADD CONSTRAINT `FK\_vehicleImage` FOREIGN KEY (`vehicle\_id`) REFERENCES `vehicles`(`id`) ON DELETE CASCADE ON UPDATE CASCADE'''

reviewsRelations='''ALTER TABLE `reviews`

ADD CONSTRAINT `FK\_customerreview` FOREIGN KEY(`customer\_id`) REFERENCES `customers`(`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `FK\_vehiclereview` FOREIGN KEY(`veh\_id`) REFERENCES `vehicles`(`id`) ON DELETE CASCADE ON UPDATE CASCADE'''

customersRelation='''AlTER TABLE `customers`

ADD CONSTRAINT `FK\_admincustomer` FOREIGN KEY(`adminId`) REFERENCES `admins`(`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `FK\_customerpayment` FOREIGN KEY(`payment\_id`) REFERENCES `payments`(`id`) ON DELETE CASCADE ON UPDATE CASCADE'''

bookingsRelation='''ALTER TABLE `bookings`

ADD CONSTRAINT `FK\_bookingcustomer` FOREIGN KEY(`customerId`) REFERENCES `customers`(`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `FK\_bookingvehicle` FOREIGN KEY(`vehicleId`) REFERENCES `vehicles`(`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `FK\_adminbooking` FOREIGN KEY(`admId`) REFERENCES `admins`(`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `FK\_bookinginvoice` FOREIGN KEY(`invoice\_id`) REFERENCES `invoices`(`id`) ON DELETE CASCADE ON UPDATE CASCADE'''