

***ANUDIP FOUNDATION***

A Project Report on

**GAS BOOKING SYSTEM**

By

Batch: ANP-C7344

Student ID: AF0368281

Name: Pratiksha Sarvade

**Under the Guidance of**

Mrs. Rajshri Chandrabhan Thete

# GAS BOOKING SYSTEM

The Gas Booking System Java Project is aimed at developing an efficient and user-friendly platform for customers to book gas cylinders online. With the increasing use of digital platforms for various services, an online gas booking system offers convenience and accessibility to customers while streamlining the booking process for gas distributors.

## Entities:

- ❖ Admin
- ❖ Gas
- ❖ Customers
- ❖ Booking
- ❖ Payments
- ❖ Delivery

## VARIOUS ENTITIES:

### 1. Admin

- admin\_id(primary key)
- admin\_name
- admin\_phone\_no
- admin\_email\_id
- admin\_password

### 2. Gas

- gas\_id(Primary Key)
- gas\_name
- gas\_type
- gas\_amount
- gas\_stock

### 3. Customers

- customer\_id(Primary key)
- customer\_name
- customer\_mobile
- customer\_email
- customer\_address
- customer\_password

#### **4. Bookings**

- booking\_id(Primary Key)
- gas\_id(fk)
- customer\_id(fk)
- booking\_type
- booking\_date

#### **5. Payments**

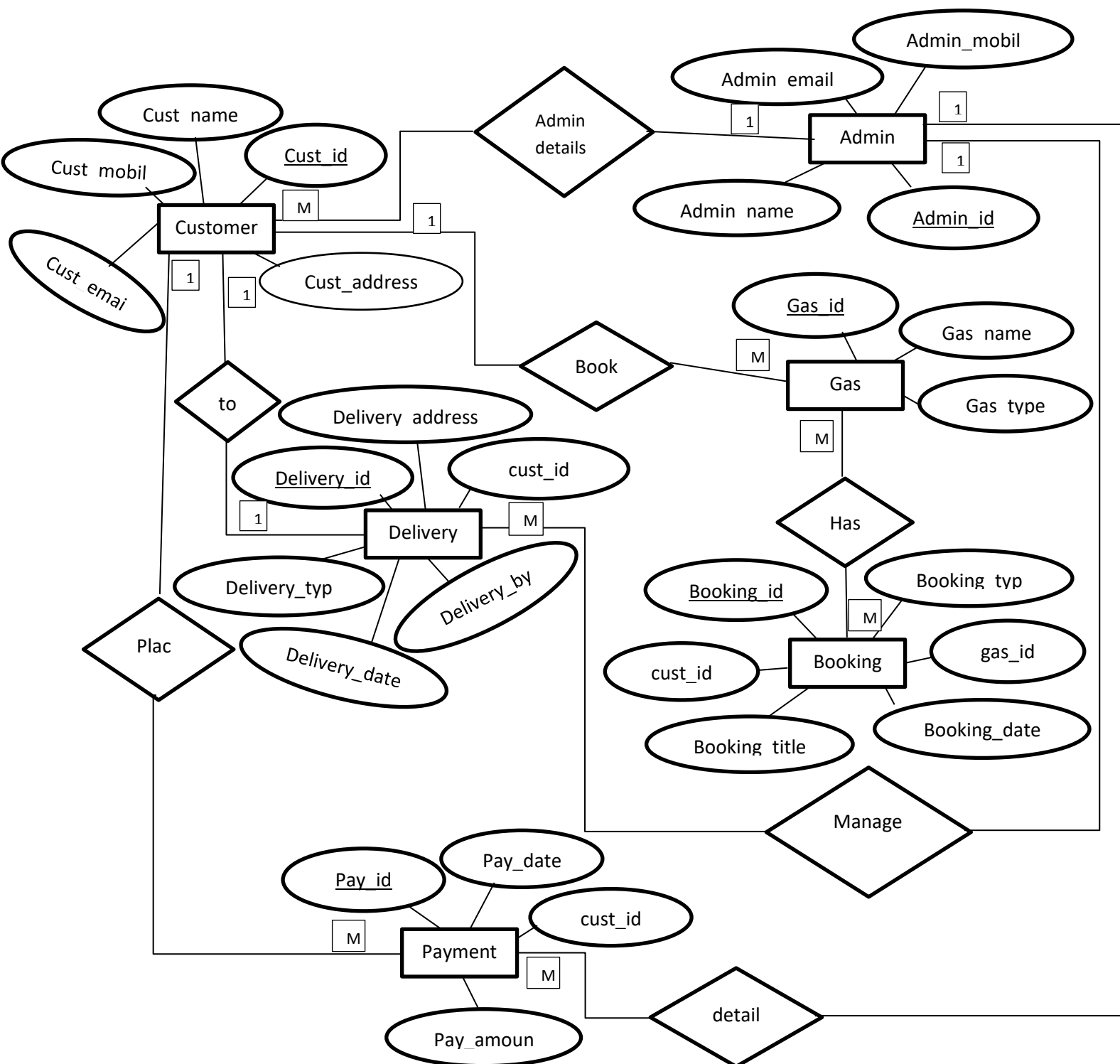
- payment\_id(Primary Key)
- customer\_id(fk)
- booking\_id(fk)
- payment\_date
- payment\_amount
- payment\_type
- payment\_status

#### **6. Delivery**

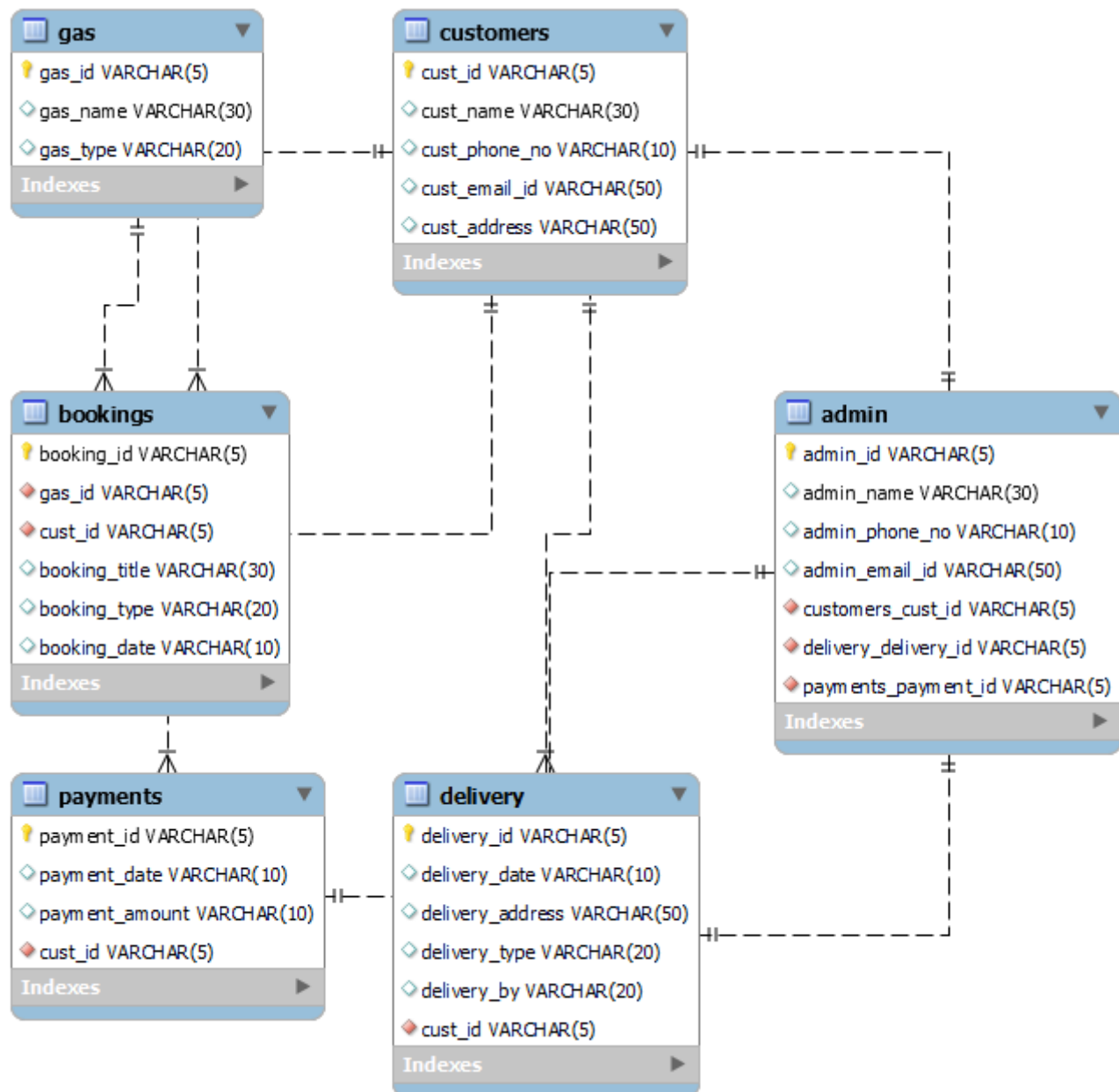
- delivery\_id(Primary Key)
- customer\_id(fk)
- delivery\_address
- delivery\_type
- delivery\_date
- delivery\_status

# ENTITY RELATIONSHIP DIAGRAM – GAS BOOKING

## SYSTEM



## CLASS DIAGRAM OF GAS BOOKING SYSTEM:



## DATABASES:

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.0.36 MySQL Community Server - GPL

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

+-----+

| Database |

+-----+

| information\_schema |

| mysql |

| performance\_schema |

| shopping |

| studentmanagementsystem |

| sys |

+-----+

6 rows in set (0.33 sec)

mysql> create database Gas\_Booking\_System;

Query OK, 1 row affected (0.06 sec)

**mysql> show databases;**

```
+-----+
| Database          |
+-----+
| gas_booking_system    |
| information_schema    |
| mysql                |
| performance_schema    |
| shopping              |
| studentmanagementsystem |
| sys                  |
+-----+
```

**7 rows in set (0.00 sec)**

**mysql> use gas\_booking\_system;**

**Database changed**

**mysql> create table admin(admin\_id varchar(5)primary key, admin\_name  
varchar(30),admin\_phone\_no varchar(10), admin\_email\_id varchar(50));**

**Query OK, 0 rows affected (0.15 sec)**

**mysql> create table gas(gas\_id varchar(5)primary key, gas\_name varchar(30), gas\_type  
varchar(20));**

**Query OK, 0 rows affected (0.03 sec)**

**mysql> create table customers(cust\_id varchar(5)primary key, cust\_name varchar(30),  
cust\_phone\_no varchar(10),cust\_email\_id varchar(50),cust\_address varchar(50));**

**Query OK, 0 rows affected (0.04 sec)**

**mysql> create table bookings(booking\_id varchar(5)primary key, gas\_id varchar(5) not null,  
cust\_id varchar(5) not null, booking\_title varchar(30), booking\_type varchar(20),booking\_date  
varchar(10),foreign key(gas\_id) references gas(gas\_id),foreign key(cust\_id) references  
customers(cust\_id));**

**Query OK, 0 rows affected (0.07 sec)**

```
mysql> create table payments(payment_id varchar(5)primary key, payment_date varchar(10),
payment_amount varchar(10),cust_id varchar(5)not null, foreign key(cust_id) references
customers(cust_id));
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> create table delivery(delivery_id varchar(5)primary key, delivery_date varchar(10),
delivery_address varchar(50),delivery_type varchar(20), delivery_by varchar(20),cust_id
varchar(5)not null, foreign key(cust_id) references customers(cust_id));
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> show tables;
```

```
+-----+
| Tables_in_gas_booking_system |
+-----+
| admin          |
| bookings      |
| customers      |
| delivery       |
| gas            |
| payments       |
+-----+
```

6 rows in set (0.04 sec)

```
mysql> desc admin;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| admin_id   | varchar(5) | NO   | PRI | NULL    |      |
| admin_name | varchar(30) | YES  |     | NULL    |      |
| admin_phone_no | varchar(10) | YES  |     | NULL    |      |
| admin_email_id | varchar(50) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.02 sec)



mysql> desc bookings;

Field	Type	Null	Key	Default	Extra
booking_id	varchar(5)	NO	PRI	NULL	
gas_id	varchar(5)	NO	MUL	NULL	
cust_id	varchar(5)	NO	MUL	NULL	
booking_title	varchar(30)	YES		NULL	
booking_type	varchar(20)	YES		NULL	
booking_date	varchar(10)	YES		NULL	

6 rows in set (0.00 sec)

mysql> desc customers;

Field	Type	Null	Key	Default	Extra
cust_id	varchar(5)	NO	PRI	NULL	
cust_name	varchar(30)	YES		NULL	
cust_phone_no	varchar(10)	YES		NULL	
cust_email_id	varchar(50)	YES		NULL	
cust_address	varchar(50)	YES		NULL	

5 rows in set (0.00 sec)

mysql> desc delivery;

Field	Type	Null	Key	Default	Extra
delivery_id	varchar(5)	NO	PRI	NULL	
delivery_date	varchar(10)	YES		NULL	

delivery_address	varchar(50)	YES		NULL	
delivery_type	varchar(20)	YES		NULL	
delivery_by	varchar(20)	YES		NULL	
cust_id	varchar(5)	NO	MUL	NULL	

6 rows in set (0.00 sec)

```
mysql> desc gas;
```

Field	Type	Null	Key	Default	Extra
gas_id	varchar(5)	NO	PRI	NULL	
gas_name	varchar(30)	YES		NULL	
gas_type	varchar(20)	YES		NULL	

3 rows in set (0.01 sec)

```
mysql> desc payments;
```

Field	Type	Null	Key	Default	Extra
payment_id	varchar(5)	NO	PRI	NULL	
payment_date	varchar(10)	YES		NULL	
payment_amount	varchar(10)	YES		NULL	
cust_id	varchar(5)	NO	MUL	NULL	

4 rows in set (0.00 sec)

```
mysql> insert into
```

```
admin(admin_id,admin_name,admin_phone_no,admin_email_id)values('A101','monika
meragu','7499358506','monikameragu@gmail.com'),('A102','shrutika
sambharam','9156820125','shrutikasambharam@gmail.com'),('A103','radha
balla','7875184544','radhaballa@gmail.com'),('A104','aarti
```

```
sherla','9284773327','aartisherla@gmail.com'),('A105','pratiksha sarvade','8421585460','pratikshasarvade@gmail.com');
```

Query OK, 5 rows affected (0.05 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> insert into gas(gas_id,gas_name,gas_type)values('G101','cooking at home','propane(LPG)'),('G102','cooking at home','natural gas'),('G103','car','regular gas'),('G104','hospital','oxygen'),('G105','hospital','carbon dioxide'),('G106','hospital','nitrogen');
```

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> insert into customers(cust_id,cust_name,cust_phone_no,cust_email_id,cust_address)values('C101','monika meragu','7499358506','monikameragu@gmail.com','solapur'),('C102','shrutika sambharam','9156820125','shrutikasambharam@gmail.com','solapur'),('C103','radha balla','7875184544','radhaballa@gmail.com','pune'),('C104','aarti sherla','9284773327','aartisherla@gmail.com','pune'),('C105','pratiksha sarvade','8421585460','pratikshasarvade@gmail.com','pune');
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> insert into bookings(booking_id,gas_id,cust_id,booking_title,booking_type,booking_date)values('B101','G101','C101','cooking at home','propane(LPG)','10-05-2021'),('B102','G102','C102','car','regular gas','15-04-2023'),('B103','G103','C103','hospital','carbon dioxide','25-06-2024');
```

Query OK, 3 rows affected (0.00 sec)

Records: 3 Duplicates: 0 Warnings: 0

```
mysql> insert into payments(payment_id,cust_id,payment_date,payment_amount)values('P101','C101','12-04-2024','1000'),('P102','C102','15-06-2021','110'),('P103','C103','16-03-2022','25000');
```

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

```
mysql> insert into delivery(delivery_id,cust_id,delivery_address,delivery_type,delivery_by,delivery_date)values('D101','C101','solapur','fee','weekend','16-05-2024'),('D102','C102','pune','fee','weekend','25-06-2024');
```

Query OK, 2 rows affected (0.06 sec)

**Records: 2 Duplicates: 0 Warnings: 0**

**mysql> select \*from delivery;**

```
+-----+-----+-----+-----+-----+-----+
| delivery_id | delivery_date | delivery_address | delivery_type | delivery_by | cust_id |
+-----+-----+-----+-----+-----+-----+
| D101      | 16-05-2024   | solapur        | fee          | weekend     | C101    |
| D102      | 25-06-2024   | pune           | fee          | weekend     | C102    |
+-----+-----+-----+-----+-----+-----+
```

**2 rows in set (0.00 sec)**

**mysql> select \*from payments;**

```
+-----+-----+-----+-----+
| payment_id | payment_date | payment_amount | cust_id |
+-----+-----+-----+-----+
| P101      | 12-04-2024   | 1000          | C101    |
| P102      | 15-06-2021   | 110           | C102    |
| P103      | 16-03-2022   | 25000         | C103    |
+-----+-----+-----+-----+
```

**3 rows in set (0.00 sec)**

**mysql> select \*from bookings;**

```
+-----+-----+-----+-----+-----+-----+
| booking_id | gas_id | cust_id | booking_title | booking_type | booking_date |
+-----+-----+-----+-----+-----+-----+
| B101      | G101  | C101   | cooking at home | propane(LPG) | 10-05-2021   |
| B102      | G102  | C102   | car           | regular gas  | 15-04-2023   |
| B103      | G103  | C103   | hospital      | carbon dioxide | 25-06-2024   |
+-----+-----+-----+-----+-----+-----+
```

**3 rows in set (0.00 sec)**

**mysql> select \*from customers;**

```

+-----+-----+-----+-----+-----+
| cust_id | cust_name      | cust_phone_no | cust_email_id      | cust_address |
+-----+-----+-----+-----+-----+
| C101   | monika meragu   | 7499358506    | monikameragu@gmail.com | solapur      |
| C102   | shrutika sambharam | 9156820125    | shrutikasambharam@gmail.com | solapur      |
| C103   | radha balla     | 7875184544    | radhaballa@gmail.com   | pune         |
| C104   | aarti sherla    | 9284773327    | aartisherla@gmail.com   | pune         |
| C105   | pratiksha sarvade | 8421585460    | pratikshasarvade@gmail.com | pune         |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> select *from gas;
+-----+-----+-----+
| gas_id | gas_name      | gas_type      |
+-----+-----+-----+
| G101   | cooking at home | propane(LPG)  |
| G102   | cooking at home | natural gas   |
| G103   | car            | regular gas   |
| G104   | hospital       | oxygen        |
| G105   | hospital       | carbon dioxide |
| G106   | hospital       | nitrogen      |
+-----+-----+-----+
6 rows in set (0.00 sec)

```

```

mysql> select *from admin;
+-----+-----+-----+-----+
| admin_id | admin_name      | admin_phone_no | admin_email_id      |
+-----+-----+-----+-----+
| A101   | monika meragu   | 7499358506    | monikameragu@gmail.com |
| A102   | shrutika sambharam | 9156820125    | shrutikasambharam@gmail.com |
| A103   | radha balla     | 7875184544    | radhaballa@gmail.com   |
| A104   | aarti sherla    | 9284773327    | aartisherla@gmail.com   |

```

| A105 | pratiksha sarvade | 8421585460 | pratikshasarvade@gmail.com |

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

**5 rows in set (0.00 sec)**

## **CONCLUSION:**

In this project, we successfully developed a gas booking system to streamline the process of booking gas cylinders for customers. The system allows users to register, log in, and place orders for gas cylinders online. It also provides functionalities for administrators to manage user accounts and track order status.