

## **DBMS Assignment-I**

**Name:Swetha Sai Dakupati**

**Roll.no:1602-19-737-093**

**Section:IT-B**

# ***PETROL BUNK AUTOMATION SYSTEM***

---

**DONE BY:-**

**SWETHA SAI DAKUPATI**

**1602-19-737-093**

**IT-B**

---

### **ABSTRACT:-**

The Petrol Bunk Automation System is one stop destination to save time, pay bills easily for pumping petrol or diesel. This Petrol Bunk Automation System PBAS helps to deposit money on

behalf of us and use it while pumping petrol or diesel with the pin customer has set before. He can use his deposited amount until he finishes it. The registered user can even look for various bunks near him and the cost of petrol and diesel there on a specified date. This can help to build a statistics in cost of petroleum and diesel. The PBAS also provides feedback from users to bunk.

## **REQUIREMENT ANALYSIS**

### **List Of Tables:**

**Bunk**

**Petrol\_price**

**Diesel\_price**

**Register**

**Update\_balance**

**Booking\_petrol**

**Booking\_diesel**

**Feedback**

### **List of attributes with their domain types:-**

**Bunk:**

City Name : city -varchar2(20)

Area Name : area -varchar2(20)

Bunk Name : name -varchar2(30));

**petrol\_price**

City Name : city - varchar2(30)

Area Name : area - varchar2(20)

Date : day – date

Price on that date - price - number);

### **diesel\_price**

City Name : city - varchar2(30)

Area Name : area varchar2(20)

Date : day – date

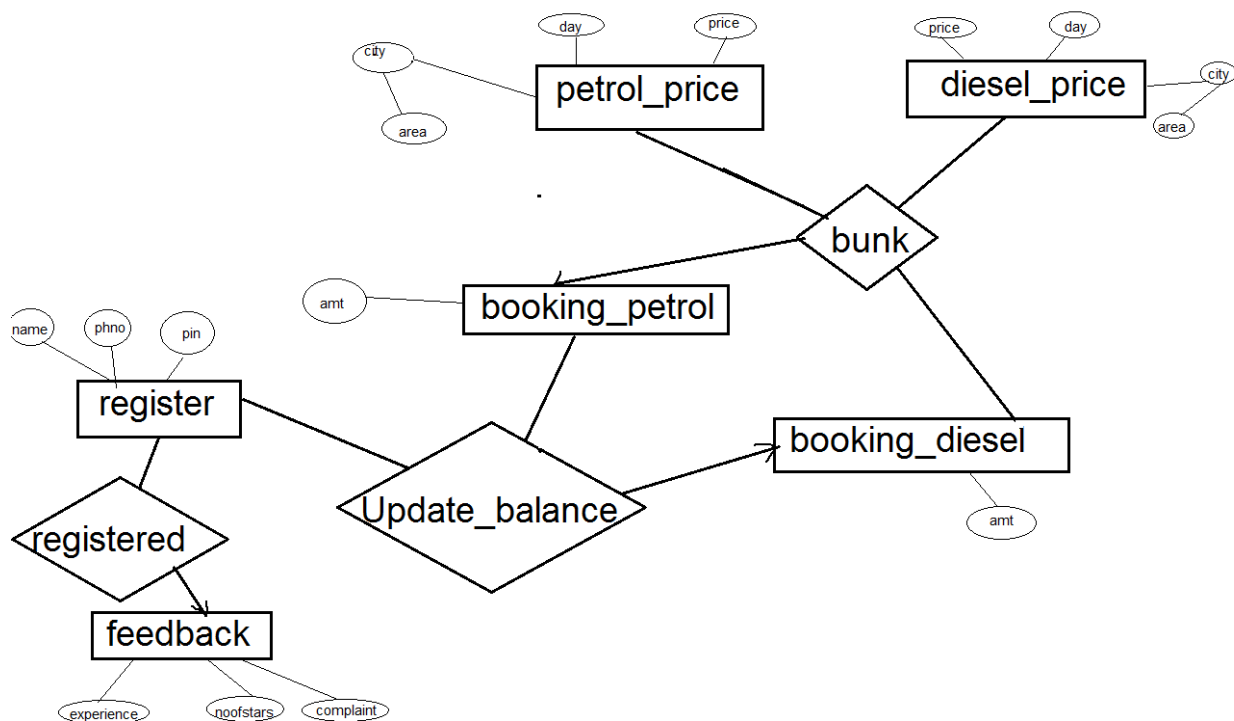
Price On That Date : price number);

### **register**

Name Of User : name varchar2(20)

Contact Number : phno - number(10)

Pin Number : pin number(4));



## **MAPPING CARDINALITY AND PARTICIPATION CONSTRAINTS**

Every registration (register) is connected to some booking and feedback.

Every booking is associated with several prices via bunk. Booking\_petrol and booking\_diesel has partial participation in relation

## DDL COMMANDS

```
create table bunk(  
  
city varchar2(20),area varchar2(20),name varchar2(30) not null,primary key(city,area));  
  
create table petrol_price(  
  
city varchar2(30) not null,area varchar2(20)not null,day date,price number not null);  
  
create table diesel_price(  
  
city varchar2(30) not null,area varchar2(20) not null,day date,price number not null);  
  
create table register(  
  
name varchar2(20) not null,phno number(10) primary key check(length(phno)=10),pin number(4)  
check(length(pin)=4));  
  
create table update_balance(  
  
phno references register,amt number);  
  
create table booking_petrol(  
  
phno references register(phno),amt number);  
  
create table booking_diesel(  
  
phno references register(phno),amt number);  
  
create table feedback(  
  
experience varchar(1000),noOfStars number,complaint varchar(1000));
```

## DML COMMANDS

1. insert into bunk values('&city','&area','&name');
2. insert into petrol\_price('&city','&area','&day','&price');
3. insert into diesel\_price('&city','&area','&day','&price');
4. insert into register values('&name','&phno','&pin');
5. insert into update\_balance values(&phno,&amt);

6. update update\_balance set amt=amt+&sum where phno=&phno;
7. insert into booking\_petrol values(&phno,&amt);
8. insert into booking\_diesel values(&phno,&amt);
9. insert into feedback values('&experience',&noofstars,'&complaint');



## Run SQL Command Line

```
SQL> insert into bunk values('&city','&area','&name');
Enter value for city: Hyderabad
Enter value for area: Mehdiapatnam
Enter value for name: BharatPetroleum
old 1: insert into bunk values('&city','&area','&name')
new 1: insert into bunk values('Hyderabad','Mehdiapatnam','BharatPetroleum')

1 row created.

SQL> /
Enter value for city: Hyderabad
Enter value for area: IbrhimBagh
Enter value for name: HPPetroleum
old 1: insert into bunk values('&city','&area','&name')
new 1: insert into bunk values('Hyderabad','IbrhimBagh','HPPetroleum')

1 row created.

SQL> /
Enter value for city: Vijayawada
Enter value for area: Ajithsinghnagar
Enter value for name: BharatPetroleum
old 1: insert into bunk values('&city','&area','&name')
new 1: insert into bunk values('Vijayawada','Ajithsinghnagar','BharatPetroleum')

1 row created.

SQL> /
Enter value for city: AjithNagar
Enter value for area: Vijayawada
Enter value for name: Petroleumsltd
old 1: insert into bunk values('&city','&area','&name')
new 1: insert into bunk values('AjithNagar','Vijayawada','Petroleumsltd')

1 row created.

SQL> /
Enter value for city: IbrhimBagh
Enter value for area: Hyderabad
Enter value for name: HPPetroleum
old 1: insert into bunk values('&city','&area','&name')
new 1: insert into bunk values('IbrhimBagh','Hyderabad','HPPetroleum')

1 row created.

SQL> select * from bunk;
```

CITY	AREA	NAME
Hyderabad	Mehdiapatnam	BharatPetroleum
Hyderabad	IbrhimBagh	HPPetroleum
Vijayawada	Ajithsinghnagar	BharatPetroleum
AjithNagar	Vijayawada	Petroleumsltd
IbrhimBagh	Hyderabad	HPPetroleum

```
SQL>
```

```
Run SQL Command Line

SQL> insert into petrol_price values('&city','&area','&day',&price);
Enter value for city: Hyderabad
Enter value for area: Mehdiapatnam
Enter value for day: 08-may-21
Enter value for price: 89
old 1: insert into petrol_price values('&city','&area','&day',&price)
new 1: insert into petrol_price values('Hyderabad','Mehdiapatnam','08-may-21',89)

1 row created.

SQL> /
Enter value for city: Vijayawada
Enter value for area: Hungary
Enter value for day: 02-aug-98
Enter value for price: 36
old 1: insert into petrol_price values('&city','&area','&day',&price)
new 1: insert into petrol_price values('Vijayawada','Hungary','02-aug-98',36)

1 row created.

SQL> /
Enter value for city: Hyderabad
Enter value for area: IbrahimBagh
Enter value for day: 02-feb-21
Enter value for price: 62
old 1: insert into petrol_price values('&city','&area','&day',&price)
new 1: insert into petrol_price values('Hyderabad','IbrahimBagh','02-feb-21',62)

1 row created.

SQL> /
Enter value for city: IbrahimBagh
Enter value for area: Hyderabad
Enter value for day: 04-jan-21
Enter value for price: 96
old 1: insert into petrol_price values('&city','&area','&day',&price)
new 1: insert into petrol_price values('IbrahimBagh','Hyderabad','04-jan-21',96)

1 row created.

SQL> /
Enter value for city: Vijayawada
Enter value for area: Benz circle
Enter value for day: 04-apr-20
Enter value for price: 63
old 1: insert into petrol_price values('&city','&area','&day',&price)
new 1: insert into petrol_price values('Vijayawada','Benz circle','04-apr-20',63)

1 row created.

SQL> select * from petrol_price;
```

```
Run SQL Command Line

SQL> select * from petrol_price;
```

CITY	AREA	DAY	PRICE
Hyderabad	Mehdiapatnam	08-MAY-21	89
Vijayawada	Hungary	02-AUG-98	36
Hyderabad	IbrahimBagh	02-FEB-21	62
IbrahimBagh	Hyderabad	04-JAN-21	96
Vijayawada	Benz circle	04-APR-20	63



```
Run SQL Command Line

SQL> insert into diesel_price values('&city','&area','&day',&price);
Enter value for city: Vijayawada
Enter value for area: Benz circle
Enter value for day: 04-apr-20
Enter value for price: 98
old 1: insert into diesel_price values('&city','&area','&day',&price)
new 1: insert into diesel_price values('Vijayawada','Benz circle','04-apr-20',
98)

1 row created.

SQL> /
Enter value for city: IbrahimBagh
Enter value for area: Hyderabad
Enter value for day: 04-jan-21
Enter value for price: 126
old 1: insert into diesel_price values('&city','&area','&day',&price)
new 1: insert into diesel_price values('IbrahimBagh','Hyderabad','04-jan-21',1
26)

1 row created.

SQL> /
Enter value for city: Hyderabad
Enter value for area: IbrahimBagh
Enter value for day: 04-jun-20
Enter value for price: 111
old 1: insert into diesel_price values('&city','&area','&day',&price)
new 1: insert into diesel_price values('Hyderabad','IbrahimBagh','04-jun-20',1
11)

1 row created.

SQL> /
Enter value for city: Vijayawada
Enter value for area: Hungary
Enter value for day: 02-aug-98
Enter value for price: 60
old 1: insert into diesel_price values('&city','&area','&day',&price)
new 1: insert into diesel_price values('Vijayawada','Hungary','02-aug-98',60)

1 row created.

SQL> /
Enter value for city: Hyderabad
Enter value for area: Mehdiapatnam
Enter value for day: 03-sep-01
Enter value for price: 30
old 1: insert into diesel_price values('&city','&area','&day',&price)
new 1: insert into diesel_price values('Hyderabad','Mehdiapatnam','03-sep-01',3
0)

1 row created.

SQL> _
```

Run SQL Command Line

SQL> select \* from diesel\_price;

CITY	AREA	DAY	PRICE
Uijayawada	Benz circle	04-APR-20	98
IbrahimBagh	Hyderabad	04-JAN-21	126
Hyderabad	IbrahimBagh	04-JUN-20	111
Uijayawada	Hungary	02-AUG-98	60
Hyderabad	Mehdipatnam	03-SEP-01	30

SQL> insert into register values('&name',&phno,&pin);

Enter value for name: swetha

Enter value for phno: 6305424006

Enter value for pin: 1234

old 1: insert into register values('&name',&phno,&pin)

new 1: insert into register values('swetha',6305424006,1234)

1 row created.

SQL> /

Enter value for name: swe

Enter value for phno: 60042454036

Enter value for pin: 4321

old 1: insert into register values('&name',&phno,&pin)

new 1: insert into register values('swe',60042454036,4321)

insert into register values('swe',60042454036,4321)  
\*

ERROR at line 1:

ORA-01438: value larger than specified precision allowed for this column

SQL> /

Enter value for name: sai

Enter value for phno: 9988776655

Enter value for pin: 9632

old 1: insert into register values('&name',&phno,&pin)

new 1: insert into register values('sai',9988776655,9632)

1 row created.

SQL> /

Enter value for name: DSai

Enter value for phno: 9876598765

Enter value for pin: 8521

old 1: insert into register values('&name',&phno,&pin)

new 1: insert into register values('DSai',9876598765,8521)

1 row created.

SQL> /

Enter value for name: gera

Enter value for phno: 7036218996

Enter value for pin: 1478

old 1: insert into register values('&name',&phno,&pin)

new 1: insert into register values('gera',7036218996,1478)

1 row created.

SQL> \_

```
Run SQL Command Line

SQL> insert into update_balance values(&phno,&amt);
Enter value for phno: 6305424006
Enter value for amt: 100
old 1: insert into update_balance values(&phno,&amt)
new 1: insert into update_balance values(6305424006,100)

1 row created.

SQL> update update_balance set amt=amt+&sum where phno=&phno;
Enter value for sum: 6305424006
Enter value for phno: 62
old 1: update update_balance set amt=amt+&sum where phno=&phno
new 1: update update_balance set amt=amt+6305424006 where phno=62

0 rows updated.

SQL> update update_balance set amt=amt+&sum where phno=&phno;
Enter value for sum: 65
Enter value for phno: 6305424006
old 1: update update_balance set amt=amt+&sum where phno=&phno
new 1: update update_balance set amt=amt+65 where phno=6305424006

1 row updated.

SQL> insert into update_balance values(&phno,&amt);
Enter value for phno: 9988776655
Enter value for amt: 30
old 1: insert into update_balance values(&phno,&amt)
new 1: insert into update_balance values(9988776655,30)

1 row created.

SQL> update update_balance set amt=amt+&sum where phno=&phno;
Enter value for sum: 98
Enter value for phno: 9988776655
old 1: update update_balance set amt=amt+&sum where phno=&phno
new 1: update update_balance set amt=amt+98 where phno=9988776655

1 row updated.

SQL> select * from update_balance;

      PHNO      AMT
-----
6305424006    165
9988776655    128
```

## Run SQL Command Line

```
SQL> insert into booking_petrol values(&phno,&amt);
Enter value for phno: 6305424006
Enter value for amt: 30
old 1: insert into booking_petrol values(&phno,&amt)
new 1: insert into booking_petrol values(6305424006,30)

1 row created.

SQL> update update_balance set amt=amt-&sum where phno=&phno;
Enter value for sum: 30
Enter value for phno: 6305424006
old 1: update update_balance set amt=amt-&sum where phno=&phno
new 1: update update_balance set amt=amt-30 where phno=6305424006

1 row updated.

SQL>
SQL> insert into booking_petrol values(&phno,&amt);
Enter value for phno: 9988776655
Enter value for amt: 60
old 1: insert into booking_petrol values(&phno,&amt)
new 1: insert into booking_petrol values(9988776655,60)

1 row created.

SQL> update update_balance set amt=amt-&sum where phno=&phno;
Enter value for sum: 60
Enter value for phno: 9988776655
old 1: update update_balance set amt=amt-&sum where phno=&phno
new 1: update update_balance set amt=amt-60 where phno=9988776655

1 row updated.

SQL> select * from booking_petrol;

      PHNO      AMT
-----
6305424006      30
9988776655      60

SQL> select * from update_balance;

      PHNO      AMT
-----
6305424006     105
9988776655      68

SQL> insert into booking_diesel values(&phno,&amt);
Enter value for phno: 6305424006
Enter value for amt: 50
old 1: insert into booking_diesel values(&phno,&amt)
new 1: insert into booking_diesel values(6305424006,50)

1 row created.
```

```
SQL> update update_balance set amt=amt-&sum where phno=&phno;
Enter value for sum: 50
Enter value for phno: 6305424006
old 1: update update_balance set amt=amt-&sum where phno=&phno
new 1: update update_balance set amt=amt-50 where phno=6305424006

1 row updated.

SQL> insert into booking_diesel values(&phno,&amt);
Enter value for phno: 9988776655
Enter value for amt: 60
old 1: insert into booking_diesel values(&phno,&amt)
new 1: insert into booking_diesel values(9988776655,60)

1 row created.

SQL> update update_balance set amt=amt-&sum where phno=&phno;
Enter value for sum: 60
Enter value for phno: 9988776655
old 1: update update_balance set amt=amt-&sum where phno=&phno
new 1: update update_balance set amt=amt-60 where phno=9988776655

1 row updated.

SQL> insert into booking_diesel values(&phno,&amt);
Enter value for phno: 6305424006
Enter value for amt: 50
old 1: insert into booking_diesel values(&phno,&amt)
new 1: insert into booking_diesel values(6305424006,50)

1 row created.

SQL> update update_balance set amt=amt-&sum where phno=&phno;
Enter value for sum: 50
Enter value for phno: 6305424006
old 1: update update_balance set amt=amt-&sum where phno=&phno
new 1: update update_balance set amt=amt-50 where phno=6305424006

1 row updated.

SQL> select * from update_balance;

  PHNO      AMT
-----
6305424006      5
9988776655      8

SQL> select * from booking_diesel;

  PHNO      AMT
-----
6305424006     50
9988776655     60
6305424006     50

SQL> _
```

```
SQL> insert into feedback values(10,8185051364,'super',5,'NA');
1 row created.

SQL> insert into feedback values(10,9052234383,'super',5,'NA');
1 row created.
```

```
SQL> select * from feedback;
```

	SNO	PHNO
--	-----	------

EXPERIENCE		
------------	--	--

NOOFSTARS		
-----------	--	--

COMPLAINT		
-----------	--	--

	10	8185051364
--	----	------------

super	5	
-------	---	--

NA		
----	--	--

	SNO	PHNO
--	-----	------

EXPERIENCE		
------------	--	--

NOOFSTARS		
-----------	--	--

COMPLAINT		
-----------	--	--

	10	9052234383
--	----	------------

super	5	
-------	---	--

NA		
----	--	--

```
SQL> alter table petrol_price add primary key(city,area,day);
```

```
Table altered.
```

```
SQL> desc petrol_price;
```

Name	Null?	Type
CITY	NOT NULL	VARCHAR2(30)
AREA	NOT NULL	VARCHAR2(20)
DAY	NOT NULL	DATE
PRICE	NOT NULL	NUMBER

```
SQL> _
```

```
SQL> alter table diesel_price add primary key(city,area,day);
```

```
Table altered.
```

```
SQL> desc diesel_price;
```

Name	Null?	Type
CITY	NOT NULL	VARCHAR2(30)
AREA	NOT NULL	VARCHAR2(20)
DAY	NOT NULL	DATE
PRICE	NOT NULL	NUMBER

```
SQL> _
```