

ANITI PG SERVICES

ABSTRACT

PG refers to when a person stays in someone else's house/property and pays rent for the accommodation and facilities available with it, such as electricity, water, housekeeping, and food at times.

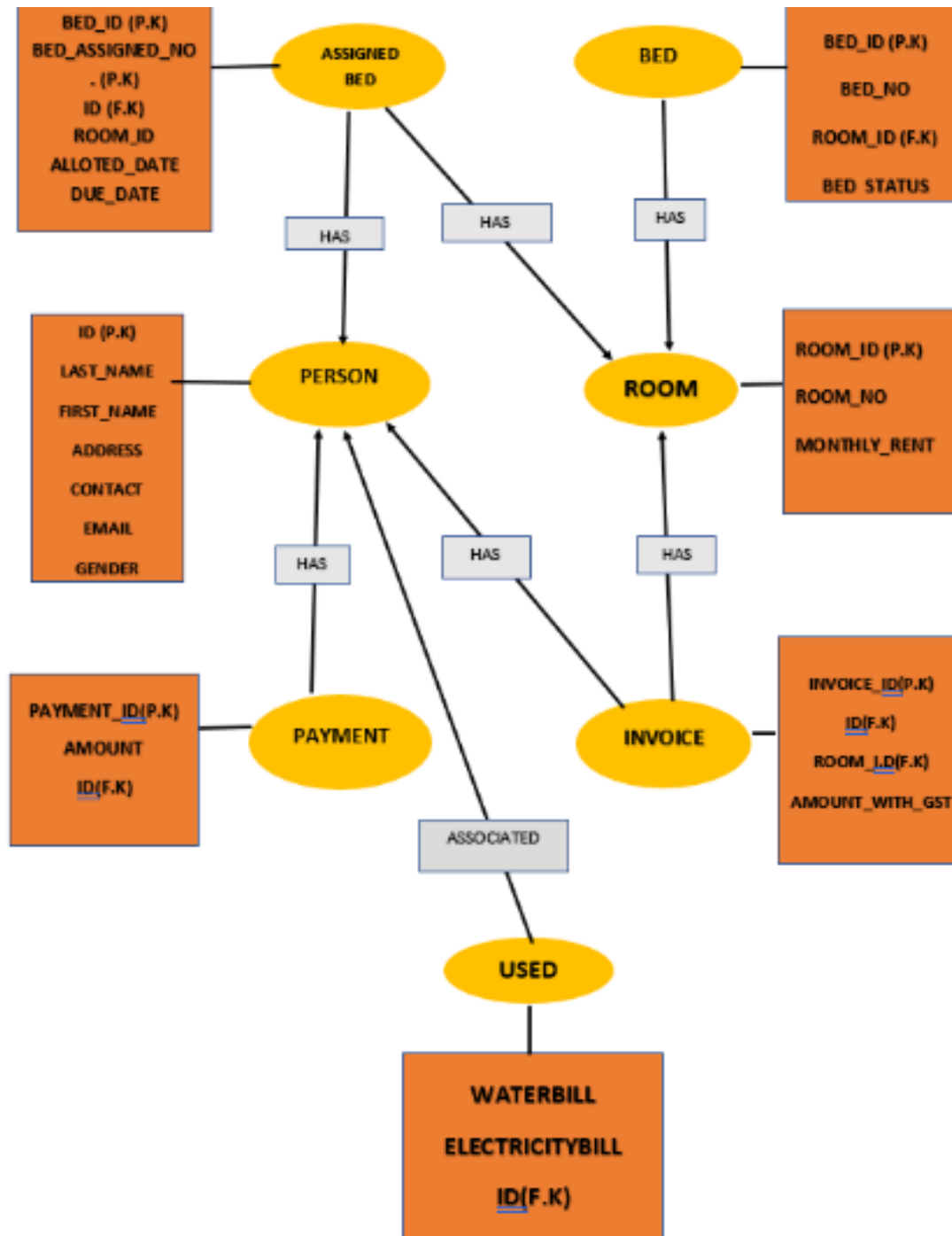
The concept of PG is generally famous in the areas closer to business centres or educational institutes because working professionals and students prefer these locations to reduce their travel time and save some money.

PG collects rent monthly, in advance at the beginning of the month. PG charges depend on the available facilities.

OBJECTIVE

- Admin control over the website.
- Online accommodation search.
- Details of room provided on a private basis.

ER DIAGRAM



STRUCTURE OF TABLES

PERSON

This table contain all the details of a person stays pays rent for the accommodation and facilities available with it.

```
MariaDB [boarding]> desc person;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	
last_name	varchar(50)	YES		NULL	
first_name	varchar(50)	YES		NULL	
address	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
contact	varchar(40)	YES		NULL	
gender	varchar(50)	YES		NULL	

7 rows in set (0.043 sec)

ROOM

This table contain information of room for person to check which room is available and their room price.

```
MariaDB [boarding]> desc room;
```

Field	Type	Null	Key	Default	Extra
room_id	int(11)	NO	PRI	NULL	
room_no	int(11)	YES		NULL	
monthly_rent	int(11)	YES		NULL	

3 rows in set (0.046 sec)

BED

This table contain the details of person who has booked a room .

```
MariaDB [boarding]> desc bed;
```

Field	Type	Null	Key	Default	Extra
bed_id	int(11)	NO	PRI	NULL	
bed_no	int(11)	YES		NULL	
room_id	int(11)	YES	MUL	NULL	
bed_status	varchar(50)	YES		NULL	

```
4 rows in set (0.045 sec)
```

USED

This table contain the details of person who has facilities available with it, such as electricity, water.

```
MariaDB [boarding]> desc used;
```

Field	Type	Null	Key	Default	Extra
waterbill	int(11)	YES		NULL	
electricitybill	int(11)	YES		NULL	
id	int(11)	YES	MUL	NULL	

```
3 rows in set (0.043 sec)
```

ASSIGNED BED

This table contain the details of person according to their assigned bed id and no with allotted and due date.

```
MariaDB [boarding]> desc assigned_bed;
```

Field	Type	Null	Key	Default	Extra
bed_id	int(11)	YES	MUL	NULL	
bed_assign_no	int(11)	NO	PRI	NULL	
id	int(11)	YES	MUL	NULL	
room_id	int(11)	YES	MUL	NULL	
alloted_date	date	YES		NULL	
due_date	date	YES		NULL	

```
6 rows in set (0.045 sec)
```

PAYMENT

This table contain the details of payment of person who has room.

```
MariaDB [boarding]> DESC PAYMENT;
```

Field	Type	Null	Key	Default	Extra
payment_id	int(11)	NO	PRI	NULL	
amount	int(11)	YES		NULL	
id	int(11)	YES	MUL	NULL	

```
3 rows in set (0.047 sec)
```

INVOICE

This table has the information of person with their total bill.

```
MariaDB [boarding]> DESC INVOICE;
```

Field	Type	Null	Key	Default	Extra
invoice_id	int(11)	NO	PRI	NULL	
id	int(11)	YES	MUL	NULL	
room_id	int(11)	YES	MUL	NULL	
amount_with_gst	int(11)	YES		NULL	

4 rows in set (0.044 sec)

CONTENTS OF TABLES

PERSON

```
MariaDB [boarding]> select * from person;
```

id	last_name	first_name	address	email	contact	gender
1	priti	chavan	badlapur	abc@gmail.com	7863475438	f
2	khushi	bhopi	badlapur	khushi@gmail.com	985746584	f
3	anu	ransing	kalyan	ransing17@gmail.com	8456712579	m
4	pooja	ingale	dombivali	pooja@gmail.com	8745692145	f
5	meenakshi	ubale	ambarnath	min23@gmail.com	7584692457	f
6	sanskruti	vekhande	ambarnath	sanku@gmail.com	7512364852	f
7	jay	patil	titwala	jay876@gmail.com	8457269425	m
8	vivek	bajage	badlapur	bajage937@gmail.com	7597841236	m
9	ashish	dayare	neral	ashish97@gmail.com	9758426845	m
10	pallavi	ransing	vithalwadi	pallaviran@gmail.com	9824567185	f
11	aditi	acharya	thane	aditi@gmail.com	8457216945	f
12	riya	ahuja	kalwa	ahuja930@gmail.com	7584695214	f
13	raj	agarwal	thakurli	agarwal@gmail.com	8457692345	m
14	divya	patel	mumbai	divya@gmail.com	7541254862	f
15	ravi	datta	mumbra	ravidat@gmail.com	9754824584	m
16	bharti	chavan	kalyan	bharati09@gmail.com	7548754124	f
17	priyanka	chavan	ambarnath	priyanka49@gmail.com	8457264851	f
18	rohit	chavan	ambarnath	rohitch@gmail.com	9457612045	m
19	soham	dhule	badlapur	sohamdhule@gmail.com	8457126458	m
20	ritik	bhoir	ulhasnagar	bhoir837@gmail.com	9457123684	m
21	amogh	more	kalyan	more@gmail.com	9745812456	m
22	sima	deshapande	kurla	simade987@gmail.com	8457124569	f
23	prachi	chavan	mulund	prachichavan93@gmail.com	9745812457	f
24	minal	ingale	dombivali	ingle3987@gmail.com	9364582736	f
25	vaishali	sathe	sangli	sathe837@gmail.com	7365345367	f

25 rows in set (0.001 sec)

ROOM

```
MariaDB [boarding]> select * from room;
```

room_id	room_no	monthly_rent
1	1101	3000
2	2201	3000
3	3201	4000
4	4201	4000
5	5201	5000
6	6201	5000
7	7201	6000
8	8201	6000
9	9201	7000
10	1201	7000
11	1301	8000
12	1401	8000
13	1501	9000
14	1601	9000
15	1602	1000
16	1701	2000
17	1801	2500
18	1901	3000
19	2001	3500
20	2101	4000
21	2201	4500
22	2301	5000
23	2301	5500
24	2401	6000
25	2501	6500
26	2601	7000
27	2701	7500
28	2801	8000
29	2901	8500
30	3001	9000

```
30 rows in set (0.001 sec)
```

BED

```
MariaDB [boarding]> select * from bed;
```

bed_id	bed_no	room_id	bed_status
1001	1	1	not_available
1101	10	10	not_available
1201	11	11	not_available
1301	12	12	not_available
1401	13	13	not_available
1501	14	14	not_available
1601	15	15	not_available
1701	16	16	not_available
1801	17	17	not_available
1901	18	18	not_available
2001	2	2	not_available
2101	19	19	not_available
2201	20	20	not_available
2301	21	21	not_available
2401	22	22	not_available
2501	23	23	not_available
2601	24	24	not_available
2701	25	25	not_available
2801	26	26	available
2901	27	27	available
3001	3	3	not_available
3101	28	28	available
3201	29	29	available
4001	4	4	not_available
5001	5	5	not_available
6001	6	6	not_available
7001	7	7	not_available
8001	8	8	not_available
9001	9	9	not_available

```
29 rows in set (0.001 sec)
```

USED


```
MariaDB [boarding]> select * from used;
```

waterbill	electricitybill	id
500	900	1
600	1000	2
800	600	3
900	700	4
600	300	5
200	800	6
900	200	7
700	800	9
400	600	10
900	400	11
1000	800	12
800	600	13
900	900	14
600	1000	15
300	800	16
500	800	17
900	500	18
400	700	19
900	1200	20
1000	1700	21
800	1600	22
500	1100	23
300	1000	24
800	800	25

```
24 rows in set (0.039 sec)
```

ASSIGNED BED

```
MariaDB [boarding]> select * from assigned_bed;
```

bed_id	bed_assign_no	id	room_id	alloted_date	due_date
1001	1	1	1	2019-08-17	2019-12-20
1101	2	2	2	2019-05-18	2019-12-08
1201	3	3	3	2019-06-18	2019-12-23
1301	4	4	4	2019-04-10	2019-12-29
1401	5	5	5	2019-03-02	2019-12-05
1501	6	6	6	2020-02-07	2020-12-19
1601	7	7	7	2020-01-21	2020-12-12
1701	8	8	8	2020-04-12	2020-12-10
1801	9	9	9	2020-02-09	2020-12-21
1901	10	10	10	2020-01-01	2020-12-26
2001	11	11	11	2020-05-06	2020-12-04
2101	12	12	12	2021-03-08	2021-12-31
2201	13	13	13	2021-03-16	2021-12-26
2301	14	14	14	2021-01-02	2021-12-04
2401	15	15	15	2021-01-04	2021-12-07
2501	16	16	16	2021-02-06	2021-12-12
2601	17	17	17	2021-06-01	2021-12-02
2701	18	18	18	2021-11-28	2021-12-19
2801	19	19	19	2021-05-30	2021-12-20
2901	20	20	20	2021-02-19	2021-12-03
3001	21	21	21	2021-08-20	2021-12-09
3101	22	22	22	2021-02-19	2021-12-29
3201	23	23	23	2022-09-23	2022-12-13
4001	24	24	24	2022-10-05	2022-12-28
5001	25	25	25	2022-02-11	2022-12-02

```
25 rows in set (0.041 sec)
```

PAYMENT

```
MariaDB [boarding]> select * from payment;
```

payment_id	amount	id
501	9000	1
502	2100	2
503	1800	3
504	2400	4
505	2700	5
506	30000	6
507	3300	7
508	2400	8
509	3300	9
510	3600	10
511	33000	11
512	33000	12
513	24000	13
514	36000	14
515	36000	15
516	33000	16
517	18000	17
518	3000	18
519	21000	19
520	33000	20
521	12000	21
522	33000	22

```
22 rows in set (0.001 sec)
```

INVOICE

```

MariaDB [boarding]> select * from invoice;
+-----+-----+-----+-----+
| invoice_id | id   | room_id | amount_with_gst |
+-----+-----+-----+-----+
|          1 |    1 |        1 |          15000 |
|          2 |    2 |        2 |          30000 |
|          3 |    3 |        3 |          25000 |
|          4 |    4 |        4 |          34000 |
|          5 |    5 |        5 |          38000 |
|          6 |    6 |        6 |          45000 |
|          7 |    7 |        7 |          45000 |
|          8 |    8 |        8 |          43000 |
|          9 |    9 |        9 |          45000 |
|         10 |   10 |       10 |          44000 |
|         11 |   11 |       11 |          40000 |
|         12 |   12 |       12 |          44000 |
|         13 |   13 |       13 |          30000 |
|         14 |   14 |       14 |          40000 |
|         15 |   15 |       15 |          40000 |
|         16 |   16 |       16 |          40000 |
|         17 |   17 |       17 |          24000 |
|         18 |   18 |       18 |          35000 |
|         19 |   19 |       19 |          28000 |
|         20 |   20 |       20 |          40000 |
|         21 |   21 |       21 |          18000 |
|         22 |   22 |       22 |          40000 |
+-----+-----+-----+-----+
22 rows in set (0.001 sec)

```

SUBQUERY

1. Show the information of person who has amount with gst is in between 3000 and 8000.

```

MariaDB [boarding]> select id,last_name,first_name,contact from person
where id in (select id from invoice where amount_with_gst between 30000

```

and 40000);

```
MariaDB [boarding]> select id,last_name,first_name,contact from person where id in (select id from invoice where amount_with_gst between 30000 and 40000);
```

id	last_name	first_name	contact
2	khushi	bhopi	985746584
4	pooja	ingale	8745692145
5	meenakshi	ubale	7584692457
11	aditi	acharya	8457216945
13	raj	agarwal	8457692345
14	divya	patel	7541254862
15	ravi	datta	9754824584
16	bharti	chavan	7548754124
18	rohit	chavan	9457612045
20	ritik	bhoir	9457123684
22	sima	deshapande	8457124569

```
11 rows in set (0.003 sec)
```

2. Display the information of bed who is not available.

MariaDB [boarding]> select bed_assign_no,room_id from assigned_bed where bed_id in (select bed_id from bed where bed_status='not_available');

```
MariaDB [boarding]> select bed_assign_no,room_id from assigned_bed where bed_id in (select bed_id from bed where bed_status='not_available');
```

bed_assign_no	room_id
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
21	21
24	24
25	25

```
21 rows in set (0.001 sec)
```

3. Show the information of payment of person which is greater than amount with gst 33000 or 40000.

MariaDB [boarding]> select payment_id,id,amount from payment where id > any(select id from invoice where amount_with_gst in(33000,40000));

```
MariaDB [boarding]> select payment_id,id,amount from payment where id > any(select id from invoice where amount_with_gst in(33000,40000));
```

payment_id	id	amount
512	12	33000
513	13	24000
514	14	36000
515	15	36000
516	16	33000
517	17	18000
518	18	3000
519	19	21000
520	20	33000
521	21	12000
522	22	33000

11 rows in set (0.001 sec)

4. Show the information of person's invoice who has room id is 1 or 7 or 20.

MariaDB [boarding]> select invoice_id,amount_with_gst,room_id from invoice where id in (select id from payment where room_id in(1,7,20));

```
MariaDB [boarding]> select invoice_id,amount_with_gst,room_id from invoice where id in (select id from payment where room_id in(1,7,20));
```

invoice_id	amount_with_gst	room_id
1	15000	1
7	45000	7
20	40000	20

```
3 rows in set (0.001 sec)
```

View

create a view for payment id ,amount ,invoice id ,amount with gst associated with id of person.

```
MariaDB [boarding]> create view person_info as select
payment.payment_id,payment.amount,invoice.id,invoice.amount_with_gs
```

from payment,invoice where payment.id=invoice.id;

```
MariaDB [boarding]> select * from person_info;
```

payment_id	amount	id	amount_with_gst
501	9000	1	15000
502	2100	2	30000
503	1800	3	25000
504	2400	4	34000
505	2700	5	38000
506	30000	6	45000
507	3300	7	45000
508	2400	8	43000
509	3300	9	45000
510	3600	10	44000
511	33000	11	40000
512	33000	12	44000
513	24000	13	30000
514	36000	14	40000
515	36000	15	40000
516	33000	16	40000
517	18000	17	24000
518	3000	18	35000
519	21000	19	28000
520	33000	20	40000
521	12000	21	18000
522	33000	22	40000

22 rows in set (0.039 sec)

JOINS

1.display invoice information and person's only room rent which is amount information associated with id of person and also matching rows for the table on the right side of join which is payment.

MariaDB [boarding]> select
invoice.invoice_id,invoice.amount_with_gst,payment.amount from invoice left
join payment on invoice.id=payment.id;

```
MariaDB [boarding]> select invoice.invoice_id,invoice.amount_with_gst,payment.amount from invoice left join payment on invoice.id=payment.id;
```

invoice_id	amount_with_gst	amount
1	15000	9000
2	30000	2100
3	25000	1800
4	34000	2400
5	38000	2700
6	45000	30000
7	45000	3300
8	43000	2400
9	45000	3300
10	44000	3600
11	40000	33000
12	44000	33000
13	30000	24000
14	40000	36000
15	40000	36000
16	40000	33000
17	24000	18000
18	35000	3000
19	28000	21000
20	40000	33000
21	18000	12000
22	40000	33000

22 rows in set (0.001 sec)

2.create a inner join to display invoice information and room information according to person id.

MariaDB [boarding]> select
invoice.invoice_id,invoice.amount_with_gst,room.room_no,room.monthly_re
nt from invoice inner join room on invoice.room_id=room.room_id;

```
MariaDB [boarding]> select invoice.invoice_id,invoice.amount_with_gst,room.room_no,room.monthly_rent from invoice inner join room on invoice.room_id=room.room_id;
```

invoice_id	amount_with_gst	room_no	monthly_rent
1	15000	1101	3000
2	30000	2201	3000
3	25000	3201	4000
4	34000	4201	4000
5	38000	5201	5000
6	45000	6201	5000
7	45000	7201	6000
8	43000	8201	6000
9	45000	9201	7000
10	44000	1201	7000
11	40000	1301	8000
12	44000	1401	8000
13	30000	1501	9000
14	40000	1601	9000
15	40000	1602	1000
16	40000	1701	2000
17	24000	1801	2500
18	35000	1901	3000
19	28000	2001	3500
20	40000	2101	4000
21	18000	2201	4500
22	40000	2301	5000

```
22 rows in set (0.001 sec)
```

3.display bed information using right join has same room id.

```
MariaDB [boarding]> select
assigned_bed.bed_assign_no,assigned_bed.alloted_date,bed.bed_no,bed.bed
_status from assigned_bed right join bed on
assigned_bed.room_id=bed.room_id;
```

```
MariaDB [boarding]> select assigned_bed.bed_assign_no,assigned_bed.alloted_date,bed.bed_no,bed.bed_status from assigned_bed right join bed on assigned_bed.room_id=bed.room_id;
```

bed_assign_no	alloted_date	bed_no	bed_status
1	2019-08-17	1	not_available
10	2020-01-01	10	not_available
11	2020-05-06	11	not_available
12	2021-03-08	12	not_available
13	2021-03-16	13	not_available
14	2021-01-02	14	not_available
15	2021-01-04	15	not_available
16	2021-02-06	16	not_available
17	2021-06-01	17	not_available
18	2021-11-28	18	not_available
2	2019-05-18	2	not_available
19	2021-05-30	19	not_available
20	2021-02-19	20	not_available
21	2021-08-20	21	not_available
22	2021-02-19	22	not_available
23	2022-09-23	23	not_available
24	2022-10-05	24	not_available
25	2022-02-11	25	not_available
NULL	NULL	26	available
NULL	NULL	27	available
3	2019-06-18	3	not_available
NULL	NULL	28	available
NULL	NULL	29	available
4	2019-04-10	4	not_available
5	2019-03-02	5	not_available
6	2020-02-07	6	not_available
7	2020-01-21	7	not_available
8	2020-04-12	8	not_available
9	2020-02-09	9	not_available

```
29 rows in set (0.001 sec)
```

4.show the bed availability using self join.

```
MariaDB [boarding]> select s1.bed_id as bed, s2.bed_status as  
availability_of_bed from bed s1 join bed s2 on s1.bed_no=s2.room_id;
```

```
MariaDB [boarding]> select s1.bed_id as bed, s2.bed_status as availability_of_bed from bed s1 join bed s2 on s1.bed_no=s2.room_id;
```

bed	availability_of_bed
1001	not_available
1101	not_available
1201	not_available
1301	not_available
1401	not_available
1501	not_available
1601	not_available
1701	not_available
1801	not_available
1901	not_available
2001	not_available
2101	not_available
2201	not_available
2301	not_available
2401	not_available
2501	not_available
2601	not_available
2701	not_available
2801	available
2901	available
3001	not_available
3101	available
3201	available
4001	not_available
5001	not_available
6001	not_available
7001	not_available
8001	not_available
9001	not_available

```
29 rows in set (0.001 sec)
```