



University Dormitory and Housing Management System

By: Maranata Muluneh



Content



Introduction

Agenda

Entity Relationship Model

Schemas

Queries

Mathematical Notation

Conclusion

Introduction



- The Student Dormitory and housing Management System is a web based system that manages the process of allocating houses to university students.
- The system manages the allocation of houses to different classes of students which includes fresh, sophomore, junior and senior students.
- The system supports fresh students by providing dorms available in the university (on campus) while other classes of students are expected to live in an off campus housing after their fresh year studies.

Agenda



- The agenda of this system is to provide an automated system to allocate house for students and to simplify the process of finding a house through web based system for both the on campus and off campus housing.
- The uniqueness of the system is that the university provides a way for 2nd year and above students to look and book for an off campus house after their freshman year, by signing with residential owners that work closely with the university to help the students book house from the residential houses provided by the residence admin.

Entity Relationship Model



The Entity in the system includes :-

- Student (Request for a house)
- Dormitory Rooms(rooms for fresh students)
- Residential Rooms(off campus houses for 2nd year and above)
- Administrators (manage room allocation and payment)
- Payment System (manage the payment for the houses)

Entity Relationship Model

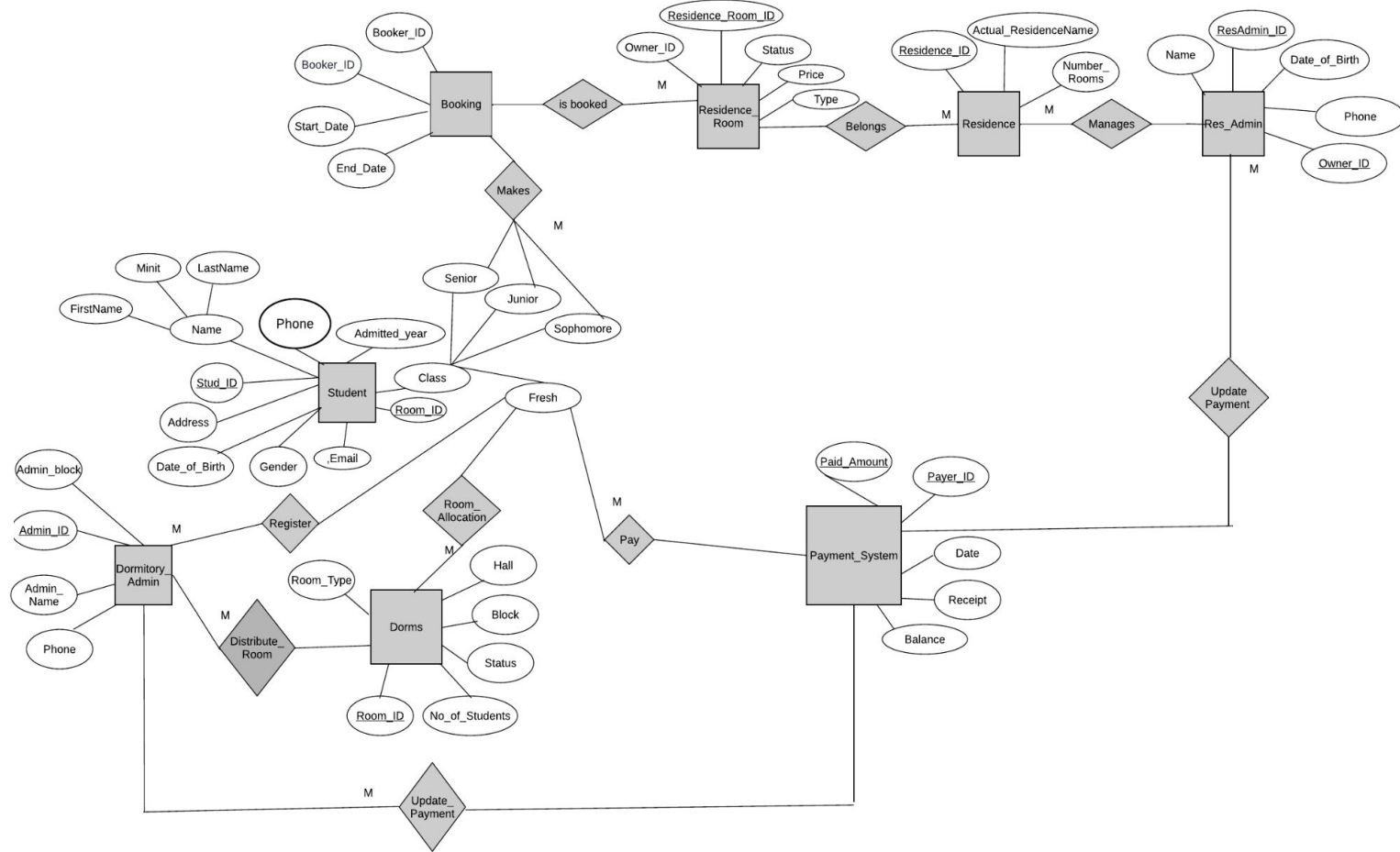
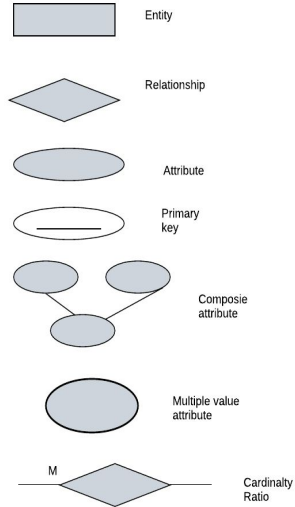


The relationship between the entities is described as follows :

- Fresh students *register* through the admin
- All students *pay* through the payment system
- Sophomore, Junior and senior students *make* booking
- Dormitory Admin *distribute rooms* for fresh students
- Fresh students gets *allocated* to a Dorm
- Residence admin *manages* the residence houses
- Residential rooms *belong to* Residence owners

ER MODEL

Legend



Schemas

MariaDB [19659mm]> select * from Student;

Stud_id	First_name	Last_name	Gender	Address	Date_of_Birth	Email	Phone	Admitted_Year	Class	RoomID
139	Angelo	Paul	M	Helen Way 94536, Fremont, California	2001-12-31	angleo@gmail.com	510-255-9828	2020-2024	fresh	R-12
111	Maranata	Muluneh	F	Bradly street 94539 Fremont, California	1999-03-03	maranathagamil.com	510-255-9800	2021-2024	fresh	02/A
112	Mahmud	Mohammed	M	Brahms Cmn 94538, Fremont, California	1999-04-03	mahmud@gmail.com	510-255-9801	2019-2021	sophomore	R-01
113	John	Carter	M	Brahms Cmn 94538, Fremont, California	2000-04-05	John@gmail.com	510-255-9802	2021-2024	fresh	04/B
114	Kris	David	F	Cadiz Court 94536, Fremont, California	1997-06-07	Kris@gmail.com	510-255-9803	2019-2025	sophomore	R-01
115	Sammy	Madiga	F	Dalgo Road 94539, Fremont, California	2020-07-08	sammy@gmail.com	510-255-9804	2018-2022	senior	R-02
116	Christopher	Tucker	M	Dali Street 94536, Fremont, California	1995-08-09	christopher@gmail.com	510-255-9805	2021-2023	fresh	03/A
117	Cameron	Wilson	M	Dallas Court 94536, Fremont California	1992-09-01	Kate@gmail.com	510-255-9806	2018-2022	fresh	03/A
118	Benny	Matthew	M	Dalton Cmn 94536, Fremont, California	2002-10-10	Benny@gmail.com	510-255-9807	2021-2025	Fresh	03/A
119	Bethel	Samuel	F	el Torazo Cmn 94536, Fremont, California	2003-11-02	Bethel@gmail.com	510-255-9808	2021-2024	fresh	05/A
120	Tom	Hiller	M	Elaiso Cmn 94536, Fremont, California	2001-12-05	tom@gmail.com	510-255-9809	2021-2025	Junior	R-02
121	Jim	Fredirick	M	Elba Place 94536, Fremont, California	1991-03-13	Jim@gmail.com	510-255-9810	2021-2024	senior	R-04
122	Mlacom	Solomon	M	Hackamore Cmn 94539, Fremont, California	1998-10-13	malcolm@gmail.com	510-255-9811	2019-2021	senior	R-04
123	Becky	Warren	M	Hackamore Lane 94539, Fremont, California	1997-06-05	Becky@gmail.com	510-255-9812	2019-2022	fresh	12/A
124	Sutton	Cruise	F	Hackberry Street 94539, Fremont, California	1996-07-16	sutton@gmail.com	510-255-9813	2019-2023	sophomore	R-05
125	Gabrielle	Witson	F	Sandal Wood Court 94536, Fremont, California	1995-08-17	gabrielle@gmail.com	510-255-9814	2019-2021	Junior	R-05
126	Jennifer	Lorance	F	Sanderling Court 94555, Fremont, California	1994-04-08	Jennifer@gmail.com	510-255-9815	2019-2022	fresh	13/B
127	Liyu	Muluneh	F	Tassel Fern Cmn 94536, Fremont, California	1999-10-19	liyu@gmail.com	510-255-9816	2020-2022	fresh	13/B
128	Lily	Nathan	F	Tavis Place 94538, Fremont, California	1999-12-20	Lily@gmail.com	510-255-9817	2020-2023	senior	R-06
129	Angela	Jonah	F	Tawny Terrace 94536, Fremont, California	1999-12-21	angela@gmail.com	510-255-9818	2020-2024	Junior	R-06
130	Mark	Joseph	M	Teakwood Drive 94536, Fremont, California	1999-03-22	mark@gmail.com	510-255-9819	2020-2025	sophomore	R-07
131	Vicky	Todd	F	Teal Cmn 94555, Fremont, California	1999-09-26	vicky@gmail.com	510-255-9820	2019-2022	senior	R-08
132	Eric	Jakes	M	Tecado Terrace 94538, Fremont, California	1999-04-12	eric@gmail.com	510-255-9821	2020-2023	sophomore	R-08
133	Philiphis	Luca	M	Woodview Terrace 94539, Fremont, California	2001-12-25	philiphis@gmail.com	510-255-9822	2020-2024	fresh	13/A
134	Kennedy	Jacob	M	Woodward Drive 94536, Fremont, California	2002-05-26	kennedy@gmail.com	510-255-9823	2019-2022	senior	R-08
135	Rahel	Canyon	F	Woodward Place 94536, Fremont, California	2003-10-23	rahel@gmail.com	510-255-9824	2021-2023	Junior	R-09
136	Martha	Zack	F	Zinfandel Street 94539, Fremont, California	2004-06-04	martha@gmail.com	510-255-9825	2019-2022	senior	R-10
137	Alberto	Agnues	M	Zircon Terrace 94555, Fremont, California	1997-02-17	alberto@gmail.com	510-255-9826	2017-2021	sophomore	R-10
138	Maria	Curry	F	Zunic Drive 94539, Fremont, California	1999-12-30	maria@gmail.com	510-255-9827	2020-2023	fresh	15/B
140	Nick	Neo	F	Gatewood Street 94538, Fremont, California	2000-01-20	nick@gmail.com	510-255-9829	2020-2021	senior	R-12
141	Kim	Walker	F	Farragut Drive 94539, Fremont, California	2000-04-02	kim@gmail.com	510-255-9830	2019-2023	fresh	06/B

31 rows in set (0.000 sec)

Schemas

```
MariaDB [19659mm]> select * from Dorms;
```

Room_ID	Block	Hall	Room_type	Status	Number_of_students	Price
01/A	Block A	1st floor	2 beds	vacant	2	3000
04/A	Block A	1st floor	2 beds	2	2	3000
01/B	Block B	1st floor	2 beds	vacant	2	3000
02/A	Block A	1st floor	4 beds	3 left	4	2000
02/B	Block B	1st floor	4 beds	3 left	4	3000
03/A	Block A	1st floor	3 beds	occupied	3	3000
03/B	Block B	1st floor	3 beds	vacant	3	3000
04/B	Block B	1st floor	2 beds	1 left	2	3000
05/A	Block A	1st floor	2 beds	1 left	2	3000
05/B	Block B	1st floor	2 beds	1left	2	3000
06/A	Block A	1st floor	4 beds	vacant	4	2000
06/B	Block B	1st floor	4 beds	1 left	4	2000
11/A	Block A	2nd floor	2 beds	vacant	2	2000
11/B	Block B	2nd floor	2 beds	vacant	2	2000
12/A	Block A	2nd floor	4 beds	3left	4	3000
12/B	Block B	2nd floor	4 beds	3 left	4	3000
13/A	Block A	2nd floor	3 beds	1 left	3	3000
13/B	Block B	2nd floor	3 beds	2 left	3	3000
14/A	Block A	2nd floor	2 beds	2	2	2000
14/B	Block B	2nd floor	2 beds	2	2	2000
15/A	Block A	2nd floor	2 beds	1 left	2	3000
15/B	Block B	2nd floor	2 beds	1 left	2	3000
16/A	Block A	2nd floor	4 beds	vacant	4	2000
16/B	Block B	2nd floor	4 beds	vacant	4	2000

```
24 rows in set (0.000 sec)
```

Schemas

```
MariaDB [19659mm]> select * from Residence;
```

Residence_ID	Actual_Residence_Name	Number_Rooms
101	Bayarearesl	4
102	J Resedential	5
103	M&Mresidential	3
104	Fremont	2

```
4 rows in set (0.000 sec)
```

Schemas

```
MariaDB [19659mm]> select * from Payment_System;
```

Payment_ID	Payer_ID	Date	Balance	Paid_amount	Receipt
10111	111	2019-04-02	3000	1000	st101.docx
10112	113	2020-05-21	3000	1000	st102.docx
10113	116	2020-08-09	3000	3000	st103.docx
10114	117	2021-05-07	3000	2000	st104.docx
10115	118	2018-08-10	3000	2000	st105.docx
10116	119	0202-02-09	2000	1000	st106.docx
10117	123	2018-10-03	2000	2000	st107.docx
10118	126	2017-04-11	3000	1500	st108.docx
10119	127	2020-02-17	3000	3000	st109.docx
10120	133	2021-08-13	2000	1500	st110.docx
10121	138	2022-02-14	3000	1000	st111.docx
10122	141	1995-09-15	2000	1500	st112.docx

```
12 rows in set (0.000 sec)
```

Schemas



```
MariaDB [19659mm]> select * from Residence_Room;
```

Residence_Room_ID	Owner_ID	Type	Status	Number_of_People_Occupation	Price
R-01	101	2beds	occupied	2	3000
R-02	101	double bed,single bed	1 left	3	2000
R-03	101	single	vacant	1	1000
R-04	101	2beds	occupied	2	3000
R-05	102	2beds ,double bed	2 left	4	4000
R-06	102	2beds	occupied	2	3000
R-07	102	single	occupied	1	1000
R-08	102	double bed,single bed	occupied	3	2000
R-09	102	single	occupied	1	1000
R-10	103	2 beds ,double bed	2 left	4	4000
R-11	103	2 beds	vacant	2	3000
R-12	103	2 beds	ocuppied	2	3000
R-13	104	single	vacant	1	1000
R-14	104	2 beds	vacant	2	3000
R-15	104	1doublebed,single bed	vacant	3	2000

15 rows in set (0.000 sec)

Schemas

```
MariaDB [19659mm]> select * from Booking;
```

Booker_Id	Booking_ID	R_Room_ID	Start_Date	End_Date
112	151	R-01	2018-04-03	2019-04-03
114	152	R-01	2018-05-01	2018-07-04
115	153	R-02	2020-06-04	2021-06-04
120	154	R-02	2019-07-05	2019-08-04
121	155	R-04	2018-08-07	2019-09-10
122	156	R-04	2019-09-10	2020-09-01
124	157	R-05	2021-10-03	2022-10-03
125	158	R-05	2022-11-02	2023-11-02
128	159	R-06	2018-12-02	2019-12-03
129	160	R-06	2019-01-14	2020-01-13
130	161	R-07	2020-06-16	2020-09-15
131	162	R-08	2019-07-15	2020-07-14
132	163	R-08	2020-08-16	2021-06-16
134	164	R-08	2017-09-17	2017-12-16
135	165	R-09	2019-01-18	2020-01-18
136	166	R-10	2017-02-18	2017-06-17
137	167	R-10	2020-04-20	2020-07-21
140	169	R-12	2019-03-22	2020-03-21

18 rows in set (0.000 sec)

Basic Queries

Retrieve the first name, last name , class and room ID of all fresh students

```
MariaDB [19659mm]> select Stud_id, First_name, Last_name, Class, RoomID from Student where Class = 'fresh';
```

Stud_id	First_name	Last_name	Class	RoomID
111	Maranata	Muluneh	fresh	02/A
113	John	Carter	fresh	04/B
116	Christopher	Tucker	fresh	03/A
117	Cameron	Wilson	fresh	03/A
118	Benny	Matthew	Fresh	03/A
119	Bethel	Samuel	fresh	05/A
123	Becky	Warren	fresh	12/A
126	Jennifer	Lorance	fresh	13/B
127	Liyu	Muluneh	fresh	13/B
133	Philiphis	Luca	fresh	13/A
141	Kim	Walker	fresh	06/B


11 rows in set (0.000 sec)

Retrieve the students ID, first name, last name, room ID ordered in descending order.

```
MariaDB [19659mm]> select Stud_id, First_name, Last_name, RoomID from Student order by Stud_id desc;
```

Stud_id	First_name	Last_name	RoomID
141	Kim	Walker	06/B
140	Nick	Neo	R-12
138	Maria	Curry	15/B
137	Alberto	Agnues	R-10
136	Martha	Zack	R-10
135	Rahel	Canyon	R-09
134	Kennedy	Jacob	R-08
133	Philiphis	Luca	13/A
132	Eric	Jakes	R-08
131	Vicky	Todd	R-08
130	Mark	Joseph	R-07
129	Angela	Jonah	R-06
128	Lily	Nathan	R-06
127	Liyu	Muluneh	13/B
126	Jennifer	Lorance	13/B
125	Gabrielle	Witson	R-05
124	Sutton	Cruise	R-05
123	Becky	Warren	12/A
122	Mlacolm	Solomon	R-04
121	Jim	Fredirick	R-04
120	Tom	Hiller	R-02
119	Bethel	Samuel	05/A
118	Benny	Matthew	03/A
117	Cameron	Wilson	03/A
116	Christopher	Tucker	03/A
115	Sammy	Madiga	R-02
114	Kris	David	R-01
113	John	Carter	04/B
112	Mahmud	Mohammed	R-01
111	Maranata	Muluneh	02/A

Retrieve the students ID , last name and their Room ID grouped by Room ID



```
MariaDB [19659mm]> select Stud_id, Last_name, RoomID from Student group by RoomID;
```

Stud_id	Last_name	RoomID
141	Walker	06/B
139	Paul	R-12
111	Muluneh	02/A
116	Tucker	03/A
113	Carter	04/B
119	Samuel	05/A
123	Warren	12/A
133	Luca	13/A
126	Lorance	13/B
138	Curry	15/B
112	Mohammed	R-01
115	Madiga	R-02
121	Fredirick	R-04
124	Cruise	R-05
128	Nathan	R-06
130	Joseph	R-07
131	Todd	R-08
135	Canyon	R-09
136	Zack	R-10
140	Neo	R-12

20 rows in set (0.000 sec)

Intermediate Queries

Retrieving the name of students whose birthyear is in 2001.

```
MariaDB [19659mm]> select First_name, Last_name from Student WHERE Date_of_Birth like '2001_____';
```

First_name	Last_name
Angelo	Paul
Tom	Hiller
Philiphis	Luca

```
3 rows in set (0.000 sec)
```

Retrieve the list of all students living off campus and paying above 2000.

```
MariaDB [19659mm]> select Last_name, class, RoomID from Student where exists(select Status from Residence_Room where Residence_Room.Residence_Room_ID = Student.RoomID and price>=2000);
```

Last_name	class	RoomID
Mohammed	sophomore	R-01
David	sophomore	R-01
Madiga	senior	R-02
Hiller	Junior	R-02
Fredirick	senior	R-04
Solomon	senior	R-04
Cruise	sophomore	R-05
Witson	Junior	R-05
Nathan	senior	R-06
Jonah	Junior	R-06
Todd	senior	R-08
Jakes	sophomore	R-08
Jacob	senior	R-08
Zack	senior	R-10
Agnues	sophomore	R-10
Neo	senior	R-12

16 rows in set (0.000 sec)

Retrieve the Dorms information with all price options

```
MariaDB [19659mm]> select Block, Hall, Status from Dorms where Number_of_students = all(select Last_Name from Student where Student.RoomID = Dorms.Room_ID);
```

Block	Hall	Status
Block A	1st floor	vacant
Block A	1st floor	2
Block B	1st floor	vacant
Block B	1st floor	3 left
Block B	1st floor	vacant
Block B	1st floor	1left
Block A	1st floor	vacant
Block B	1st floor	1 left
Block A	2nd floor	vacant
Block B	2nd floor	vacant
Block B	2nd floor	3 left
Block A	2nd floor	2
Block B	2nd floor	2
Block A	2nd floor	1 left
Block A	2nd floor	vacant
Block B	2nd floor	vacant

16 rows in set, 8 warnings (0.001 sec)

Advanced Queries

Retrieve the name of admins for dormitory and Residence

```
MariaDB [19659mm]> select distinct A.Admin_Name, R.Name from Dormitory_Admin A inner join Residence_Admin R;
```

Admin_Name	Name
Marcus	Natasha
James	Natasha
Monica	Natasha
Erssella	Natasha
Marcus	Luke
James	Luke
Monica	Luke
Erssella	Luke
Marcus	Monica
James	Monica
Monica	Monica
Erssella	Monica
Marcus	Henry
James	Henry
Monica	Henry
Erssella	Henry

16 rows in set (0.000 sec)

Retrieve the name information of Residence Rooms with their owner's name.

```
MariaDB [19659mm]> select distinct o.type, o.Status, o.Number_of_people_Occupation, r.Actual_Residence_Name from Residence_Room o natural join Residence r;
```

type	Status	Number_of_people_Occupation	Actual_Residence_Name
2beds	occupied	2	Bayarearesl
2beds	occupied	2	J Resedential
2beds	occupied	2	M&Mresidential
2beds	occupied	2	Fremont
double bed,single bed	1 left	3	Bayarearesl
double bed,single bed	1 left	3	J Resedential
double bed,single bed	1 left	3	M&Mresidential
double bed,single bed	1 left	3	Fremont
single	vacant	1	Bayarearesl
single	vacant	1	J Resedential
single	vacant	1	M&Mresidential
single	vacant	1	Fremont
2beds ,double bed	2 left	4	Bayarearesl
2beds ,double bed	2 left	4	J Resedential
2beds ,double bed	2 left	4	M&Mresidential
2beds ,double bed	2 left	4	Fremont
single	occupied	1	Bayarearesl
single	occupied	1	J Resedential
single	occupied	1	M&Mresidential
single	occupied	1	Fremont
double bed,single bed	occupied	3	Bayarearesl
double bed,single bed	occupied	3	J Resedential
double bed,single bed	occupied	3	M&Mresidential
double bed,single bed	occupied	3	Fremont
2 beds ,double bed	2 left	4	Bayarearesl
2 beds ,double bed	2 left	4	J Resedential
2 beds ,double bed	2 left	4	M&Mresidential
2 beds ,double bed	2 left	4	Fremont
2 beds	vacant	2	Bayarearesl
2 beds	vacant	2	J Resedential
2 beds	vacant	2	M&Mresidential

```
MariaDB [19659mm]> select s.First_Name, s.Last_Name,s.RoomID, b.Booking_ID, p.Paid_Amount from Student s inner join Payment_System p on s.Stud_id = p
n Booking b ;
```

First_Name	Last_Name	RoomID	Booking_ID	Paid_Amount
Maranata	Muluneh	02/A	151	1000
John	Carter	04/B	151	1000
Christopher	Tucker	03/A	151	3000
Cameron	Wilson	03/A	151	2000
Benny	Matthew	03/A	151	2000
Bethel	Samuel	05/A	151	1000
Becky	Warren	12/A	151	2000
Jennifer	Lorance	13/B	151	1500
Liyu	Muluneh	13/B	151	3000
Philipphis	Luca	13/A	151	1500
Maria	Curry	15/B	151	1000
Kim	Walker	06/B	151	1500
Maranata	Muluneh	02/A	152	1000
John	Carter	04/B	152	1000
Christopher	Tucker	03/A	152	3000
Cameron	Wilson	03/A	152	2000
Benny	Matthew	03/A	152	2000
Bethel	Samuel	05/A	152	1000
Becky	Warren	12/A	152	2000
Jennifer	Lorance	13/B	152	1500
Liyu	Muluneh	13/B	152	3000
Philipphis	Luca	13/A	152	1500
Maria	Curry	15/B	152	1000
Kim	Walker	06/B	152	1500
Maranata	Muluneh	02/A	153	1000
John	Carter	04/B	153	1000
Christopher	Tucker	03/A	153	3000
Cameron	Wilson	03/A	153	2000
Benny	Matthew	03/A	153	2000
Bethel	Samuel	05/A	153	1000
Becky	Warren	12/A	153	2000
Jennifer	Lorance	13/B	153	1500
Liyu	Muluneh	13/B	153	3000
Philipphis	Luca	13/A	153	1500
Maria	Curry	15/B	153	1000
Kim	Walker	06/B	153	1500
Maranata	Muluneh	02/A	154	1000
John	Carter	04/B	154	1000

```
MariaDB [19659mm]> select Student.Last_Name, Payment_System.Paid_Amount, Payment_System.Balance from Student left join Payment_System on Payment_System.Payer_ID = Student.Stud_id order by Student.Stud_id;
```

Last_Name	Paid_Amount	Balance
Paul	NULL	NULL
Muluneh	1000	3000
Mohammed	NULL	NULL
Carter	1000	3000
David	NULL	NULL
Madiga	NULL	NULL
Tucker	3000	3000
Wilson	2000	3000
Matthew	2000	3000
Samuel	1000	2000
Hiller	NULL	NULL
Fredirick	NULL	NULL
Solomon	NULL	NULL
Warren	2000	2000
Cruise	NULL	NULL
Witson	NULL	NULL
Lorance	1500	3000
Muluneh	3000	3000
Nathan	NULL	NULL
Jonah	NULL	NULL
Joseph	NULL	NULL
Todd	NULL	NULL
Jakes	NULL	NULL
Luca	1500	2000
Jacob	NULL	NULL
Canyon	NULL	NULL
Zack	NULL	NULL
Agnues	NULL	NULL
Curry	1000	3000
Neo	NULL	NULL
Walker	1500	2000

Mathematical Notation

Residence_Room $\leftarrow \sigma$ (type, status,
number_of_people_occupation, actual_residence_name)
Result $\leftarrow \Pi$ Residence_Room $\star \lt \gt$ Residence

```
MariaDB [19659mm]> select distinct o.type, o.Status, o.Number_of_people_Occupation, r.Actual_Residence_Name from Residence_Room o natural join Residence r;
```

type	Status	Number_of_people_Occupation	Actual_Residence_Name
2beds	occupied	2	Bayarearesl
2beds	occupied	2	J Resedential
2beds	occupied	2	M&Mresidential
2beds	occupied	2	Fremont
double bed,single bed	1 left	3	Bayarearesl
double bed,single bed	1 left	3	J Resedential
double bed,single bed	1 left	3	M&Mresidential
double bed,single bed	1 left	3	Fremont
single	vacant	1	Bayarearesl
single	vacant	1	J Resedential
single	vacant	1	M&Mresidential
single	vacant	1	Fremont
2beds ,double bed	2 left	4	Bayarearesl
2beds ,double bed	2 left	4	J Resedential
2beds ,double bed	2 left	4	M&Mresidential
2beds ,double bed	2 left	4	Fremont
single	occupied	1	Bayarearesl

Student ← σ last name, paid amount, balance (Payment_system)
 Result ← payment_system \bowtie <payment_system.payer_id = student.stud_id> Student

```
MariaDB [19659mm]> select Student.Last_Name, Payment_System.Paid_Amount, Payment_System.Balance from Student left join Payment_System on Payment_System.Payer_ID = Student.Stud_id order by Student.Stud_id;
```

Last_Name	Paid_Amount	Balance
Paul	NULL	NULL
Muluneh	1000	3000
Mohammed	NULL	NULL
Carter	1000	3000
David	NULL	NULL
Madiga	NULL	NULL
Tucker	3000	3000
Wilson	2000	3000
Matthew	2000	3000
Samuel	1000	2000
Hiller	NULL	NULL
Fredirick	NULL	NULL
Solomon	NULL	NULL
Warren	2000	2000
Cruise	NULL	NULL
Witson	NULL	NULL
Lorance	1500	3000
Muluneh	3000	3000
Nathan	NULL	NULL
Jonah	NULL	NULL
Joseph	NULL	NULL
Todd	NULL	NULL
Jakes	NULL	NULL

Conclusion



- In conclusion the designed database system is a system designed to help University housing and dormitory system simple, easy, adaptable and accessible for manipulation.



Thank
You