Ambulance Booking System

Final Project for SQL Module

By Hridayesh More

Description:

Following database schema is designed to function as a backend storage database for a web application built to manage a Ambulance.

By storing information in a relational database, all the tasks related to daily functioning of the ambulance can be performed easily and much more efficiently. Some of the benefits of using this system to store data over traditional paper registers are as follows:

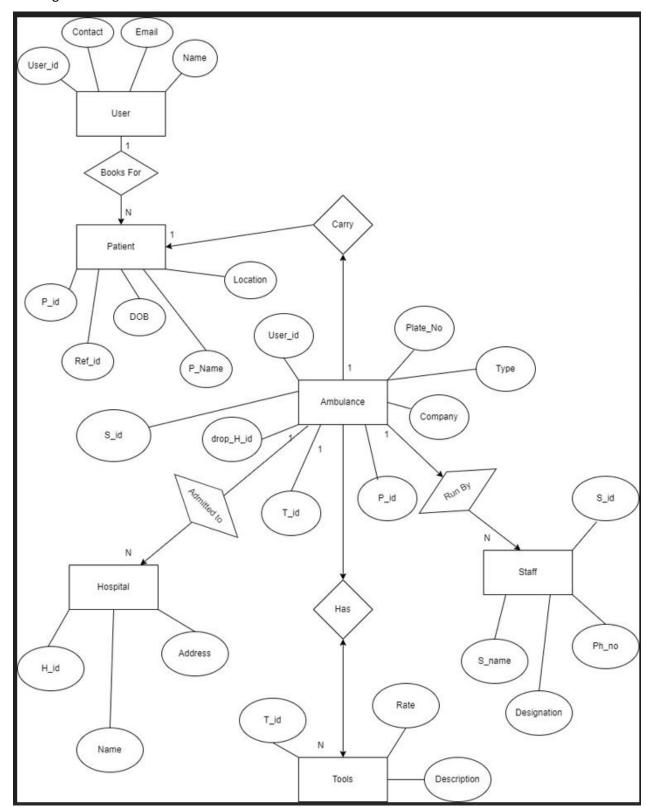
- Updating and modifying user and patient is much easier and efficient
- Maintaining patient details and their user account is easy and efficient.
- Calculations like due payments can be done automatically by DBMS, thus eliminating humanerror
- RDBMS provides many ways to analyze available data, thus helping in making more informeddecisions about inventory management and other aspects of Booking System.

This database contains 5 tables:

- 1. User
- 2. Patient
- 3. Staff
- 4. Tools
- 5. Hospital
- 6. Ambulance

How these tables/entities are related to each other is shown pictorially on next page throughER diagram, i.e., Entity Relationship Diagram.

• ER-Diagram:



• Table Descriptions:

o User:-

+ Field	 Туре	Null	 Key	Default	 Extra
l_name email	int(11) varchar(50) varchar(50) varchar(50) varchar(20)	NO NO YES	PRI	NULL NULL NULL NULL NULL	auto_increment

o Patient:-

+	 Type	+ Null	Key	Default	++ Extra
p_id ref_u_id f_name l_name Date_of_birth location	varchar(50)	YES	PRI MUL	NULL NULL NULL NULL NULL	auto_increment

o Staff:-

+	Туре	Null	Key	Default	+ Extra
s_id s_name ph_no Designation	int(11) varchar(50) varchar(20) varchar(20)	YES		NULL NULL NULL NULL	

o Tool:-

+	Туре	 Null	 Key	Default	Extra
. –	int(11) varchar(50) double	NO YES YES	PRI	NULL NULL NULL	

o Hospital:-

+	+ Type	+ Null	++ Key	Default	+ Extra
name	varchar(50)		PRI 	NULL NULL NULL	

o Ambulance:-

Field	Туре	Null	Key	Default	Extra
t user_id Plate_No type p_id t_id t_quantity drop_H_id	int(11) varchar(10) varchar(50) int(11) int(11) double int(11) int(11)	YES	MUL MUL MUL MUL	NULL NULL NULL NULL NULL NULL NULL NULL	

• Commands:-

Create Database:

Create database ambulance_booking_system;

Select Database:

use ambulance_booking_system;

Oreate Table Named User:

```
create table user(
user_id int primary key auto_increment,
f_name varchar(50) not null,
l_name varchar(50) not null,
email varchar(50),
contact varchar(20) not null);
```

Oreate Table Named Patient:

```
create table patient(
p_id int primary key auto_increment,
ref_u_id int,
f_name varchar(50),
l_name varchar(50),
Date_of_birth date,
location varchar(50),
constraint foriegn key(ref_u_id) references user(user_id));
```

Oreate Table Named Staff:

```
create table staff(
s_id int,
s_name varchar(50),
ph_no varchar(20),
Designation varchar(20));
```

Create Table Named Hospital:

```
create table hospital(
h_id int primary key,
name varchar(50),
address varchar(50));
```

Create Table Named Tool:

```
create table tool(
t_id int primary key,
description varchar(50),
rate double);
```

o Create Table Named Ambulance:

```
create table ambulance(
user_id int,

Plate_No varchar(10),
type varchar(50),
p_id int,
t_id int,
t_quantity double,
drop_H_id int,
s_id int,
constraint foreign key (user_id) references user(user_id),
foreign key (p_id) references patient(p_id),
foreign key (t_id) references tool(t_id),
foreign key (drop_H_id) references hospital(h_id));
```

• Populate Table:

O User:

```
insert into user(f_name,l_name,email,contact) values
("Hridayesh", "More", "hridayesh@gmail.com", "7738756301"),
("Rahul", "Agarwal", "Rahul@gmail.com", "9936458614"),
("Abhishek", "Ahuja", "Abhishek@gmail.com", "0520247293"),
("Aditya", "Apte", "Aditya@gmail.com", "9887662982"),
("Amit", "Babu", "Amit@gmail.com", "6869667930"),
("Mahesh", "Basu", "Mahesh@gmail.com", "8910821862"),
("Rohit","Batra","Rohit@gmail.com","2923415612"),
("Yash", "Bedi", "Yash@gmail.com", "6805974275"),
("Ankit","Agarwal","Ankit@gmail.com","8380712682"),
("Shyam", "More", "Shyam@gmail.com", "5304072160"),
("Deepak", "More", "Deepak@gmail.com", "3169104514"),
("Aryan", "Bhatt", "Aryan@gmail.com", "1575371522"),
("Raj", "Jadhav", "Raj@gmail.com", "5688757032"),
("Arjun", "Sawant", "Arjun@gmail.com", "9140557224"),
("Manoj", "More", "Manoj@gmail.com", "0290728921"),
("priya", "More", "priya@gmail.com", "4827352756"),
("Tanya", "Apte", "Tanya@gmail.com", "1028536626"),
("Priyanka", "More", "Priyanka@gmail.com", "8855942081"),
("Divya", "Ahuja", "Divya@gmail.com", "2432868179"),
("Tanvi", "Babu", "Tanvi@gmail.com", "1068684210"),
("Ishita", "Jadhav", "Ishita@gmail.com", "3842559984"),
("Vani","More","Vani@gmail.com","6988087182"),
("Anjali", "Agarwal", "Anjali@gmail.com", "3986035376"),
("Shreya", "More", "Shreya@gmail.com", "3605031062"),
("Riya", "Basu", "Riya@gmail.com", "1818791056"),
("Sneha", "Sawant", "Sneha@gmail.com", "3593137640"),
("Gayatri", "Bhatt", "Gayatri@gmail.com", "9099012225"),
("Varsha","Batra","Varsha@gmail.com","2015863235"),
("Ira", "More", "Ira@gmail.com", "0714791644"),
("Sanjana", "Jadhav", "Sanjana@gmail.com", "9782134617"),
("Nikita", "Ahuja", "Nikita@gmail.com", "5922055243"),
("Vivek", "More", "Vivek@gmail.com", "4353438175"),
("Parth", "Sawant", "Parth@gmail.com", "0502501223"),
```

```
("Soham", "Agarwal", "Soham@gmail.com", "2772955218"),
("Ajith", "More", "Ajith@gmail.com", "3241342288"),
("Abhi", "Apte", "Abhi@gmail.com", "6552984040"),
("Pratik", "More", "Pratik@gmail.com", "7034283698"),
("Rishab", "Basu", "Rishab@gmail.com", "6812023628"),
("Virat", "Babu", "Virat@gmail.com", "7295015429"),
("Shreyas", "More", "Shreyas@gmail.com", "6195108224"),
("Bumrah", "Ahuja", "Bumrah@gmail.com", "0812097892"),
("Jay","More","Jay@gmail.com","0711901759"),
("Tanu", "Jadhav", "Tanu@gmail.com", "8867370401"),
("Smriti", "Bedi", "Smriti@gmail.com", "9588570320"),
("Radha", "Bhatt", "Radha@gmail.com", "8715232080"),
("Pooja", "Sawant", "Pooja@gmail.com", "2994827785"),
("Diya", "Agarwal", "Diya@gmail.com", "9026748974"),
("Divya", "More", "Divya@gmail.com", "0454007167"),
("Prachi", "Batra", "Prachi@gmail.com", "5214148932"),
("Arti", "Basu", "Arti@gmail.com", "3445976861"),
("Sam", "Jadhav", "Sam@gmail.com", "0348273907"),
("Mitali", "Ahuja", "Mitali@gmail.com", "7738346301"),
("Ajeet", "Bedi", "Ajeet@gmail.com", "7228756301"),
("Atul", "Babu", "Atul@gmail.com", "1138756301"),
("Karan", "Agarwal", "Karan@gmail.com", "7738751201"),
("Paras", "Apte", "Paras@gmail.com", "3438756301");
```

o Patient:

```
insert into patient(ref_u_id,f_name,l_name,Date_of_birth,location) values
(23,"Rashi","sawant","1980-02-10","Kanjurmarg"),
(11,"Deepa","Jadhav","1985-07-12","Parel"),
(3,"Khushi","Lad","1990-03-20","Mulund"),
(6,"Anu","More","2010-01-12","badlapur"),
(24,"Angel","Lad","1980-04-10","Parel"),
(55,"Lily","sawant","2000-07-12","Kanjurmarg"),
(45, "Sarah", "More", "1985-02-20", "Mulund"),
(33,"Diksha","sawant","1980-07-12","badlapur"),
(22, "Kavya", "Jadhav", "2000-05-10", "Parel"),
(1,"Rashi","Dayal","1985-03-12","Mulund"),
(46, "Niti", "More", "1990-02-12", "Kanjurmarg"),
(36, "Ria", "sawant", "1980-07-12", "badlapur"),
(36,"Dia","Lad","2000-07-20","Mulund"),
(36, "Sam", "sawant", "2000-03-10", "Parel"),
(56,"Dilmini","sawant","2010-07-12","Mulund"),
(22,"Ishika","sawant","2000-04-12","Kanjurmarg"),
(12, "Sarah", "More", "1980-07-12", "badlapur"),
(78,"Avi","sawant","2000-02-12","Mulund"),
(34,"Jatin","Dayal","1985-07-20","badlapur"),
(5,"Harish","Jadhav","2000-05-10","Parel"),
(8,"Ajeet","sawant","1990-03-12","Kanjurmarg"),
(9,"Pranay","More","1980-02-12","badlapur"),
(46, "Parag", "sawant", "2000-07-12", "Parel"),
(34,"Yash","Lad","2000-07-12","Kanjurmarg"),
(32,"Jayesh","sawant","2010-07-12","Mulund"),
(44, "Soham", "sawant", "1980-04-12", "Kanjurmarg"),
(42, "Shrutik", "More", "1985-07-20", "badlapur"),
(47, "Shekar", "sawant", "2000-05-12", "Mulund"),
(49, "Sumit", "Dayal", "2000-03-12", "Parel"),
(36,"Deep","sawant","1980-02-12","badlapur"),
(39, "Akash", "More", "1985-04-12", "Kanjurmarg"),
(21,"Paras","Lad","2000-07-12","badlapur"),
(20,"Rajeev","sawant","1990-07-12","Mulund"),
```

(30, "Shashank", "Jadhav", "1980-05-12", "badlapur"),

```
(40, "Shail", "sawant", "2010-07-12", "Parel"),
(50, "Sunil", "Jadhav", "1980-03-10", "Mulund"),
(10,"Pranav","More","2000-04-12","Kanjurmarg"),
(1,"Rishikesh","Jadhav","2000-07-12","badlapur"),
(8,"Rutvik","Dayal","1985-07-12","badlapur"),
(27, "Sonu", "Lad", "2000-07-12", "Parel"),
(37, "Krish", "sawant", "2010-07-12", "badlapur"),
(47,"Abhi","More","1990-07-12","Kanjurmarg"),
(50,"John","sawant","2000-05-12","Mulund"),
(51, "Shlok", "sawant", "1985-07-12", "Kanjurmarg"),
(52,"Alok","Jadhav","2000-03-10","Parel"),
(53, "Manu", "sawant", "2010-07-12", "badlapur"),
(54, "Paaus", "Dayal", "1985-04-12", "Kanjurmarg"),
(55,"Varun","sawant","2000-01-12","Kanjurmarg"),
(35,"Akshay","Lad","2000-07-12","badlapur"),
(25, "Sharaukh", "sawant", "2000-05-12", "Parel"),
(15, "Salman", "sawant", "2010-07-12", "Mulund"),
(1,"Ajay","More","2000-01-12","badlapur"),
(2,"vijay","Jadhav","1990-03-12","Kanjurmarg"),
(3,"Dhanush","Jadhav","1985-07-12","Kanjurmarg"),
(4,"Prabhas","Jadhav","2010-070412","badlapur"),
(5,"Alia","Lad","2000-07-12","Kanjurmarg"),
(6,"Kirti","Dayal","2000-03-10","Parel"),
(7,"Pooja","Lad","1985-01-12","Kanjurmarg"),
(8, "Shruti", "More", "2000-05-12", "Mulund"),
```

(3,"Priyanka","Jadhav","2000-07-12","Parel");

o Hospital:

```
insert into hospital values
(2001, "KEM", "Parel"),
(2002, "Breach Candy Hospital", "Vasai"),
(2003, "Cumballa Hill Hospital & Heart Institute", "Virar"),
(2004, "Dr. L H Hiranandani Hospital", "Powai"),
(2005, "IPC Heart Care Centre", "Lower Parel"),
(2006, "Jaslok Hospital", "Pedder Road"),
(2007, "Asian Heart Institute", "Bandra"),
(2008, "Aditya Jyot Eye Care Hospital", "Wadala"),
(2009, "P. D. Hinduja National Hospital", "Mahim"),
(2010, "S L Raheja Hospital", "Mahim"),
(2011,"R G Stone Urology Centre","Mulund"),
(2012, "Tata Memorial Hospital", "Parel"),
(2013, "Shroff Eye Hospital", "Bandra"),
(2014,"Nanavati Hospital","Ville Parle"),
(2015, "Fortis Hospital", "Mulund"),
(2016, "Seven Hill Hospital", "Andheri");
```

Staff:

```
Insert into staff values (1001,"Sanjay More",'8976318871","Doctor"), (1002," Sam Bahadur",'8976318871"," Driver"), (1003," Chulbul Pandey", "5674578954"," Cleaner"), (1004," Munna Bhai"," 2345643678","Doctor"), (1005," Mahendra Bahubali", "6785943045"," Driver"), (1006," Mogambo"," 6744558090"," Cleaner"), (1007," Shehensha", "2345678871","Doctor"), (1008," Bhiku Mhatre", "2908998954"," Cleaner"), (1009," Tara Singh", "9905643678","Doctor"), (1010," Sanjay Malhotra", "8899943045"," Driver"), (1011," Phunsukh Wangdu", "8844558090"," Cleaner"),
```

o Tool:

```
insert into tool values
(6000, "Oxygen Cylinder", 2000),
(6001,"Oxygen Cylinder",2000),
(6002, "Oxygen Cylinder", 2000),
(6003, "Oxygen Cylinder", 2000),
(6004, "Oxygen Cylinder", 2000),
(6005, "Oxygen Cylinder", 2000),
(6006,"Oxygen Cylinder",2000),
(6007, "Oxygen Cylinder", 2000),
(6008, "Oxygen Cylinder", 2000),
(6009, "Oxygen Cylinder", 2000),
(6010,"Wheelchair",500),
(6011,"Wheelchair",500),
(6012, "Wheelchair", 500),
(6013,"Wheelchair",500),
(6014,"Ventilator",1000),
(6015,"Ventilator",1000),
(6016, "Sucktion Unit", 5000),
(6017, "Sucktion Unit", 5000),
(6016,"ECG Monitor",2000),
(6016,"ECG Monitor",2000),
(6016,"ECG Monitor",2000);
```

o Ambulance:

insert into ambulance values

```
(1,"MH04ES3127","Basic Life Support (BLS) Ambulances",25,6000,1,2001,1002),
(1,"MH04ES3127","Basic Life Support (BLS) Ambulances",25,6010,1,2001,1006),
(1,"MH04ES3127","Basic Life Support (BLS) Ambulances",25,6018,1,2001,1009),
(5,"MH04ES1009","Advanced Life Support (ALS) Ambulances",27,6011,1,2012,1001),
(5,"MH04ES1009","Advanced Life Support (ALS) Ambulances",27,6017,1,2012,1003),
(5,"MH04ES1009","Advanced Life Support (ALS) Ambulances",27,6000,0,2012,1010),
(10,"MH04ES8810","Intensive Care Unit (ICU) Ambulance",29,6000,1,2015,1009),
(10,"MH04ES8810","Intensive Care Unit (ICU) Ambulance",29,6016,1,2015,1005),
(10,"MH04ES8810","Intensive Care Unit (ICU) Ambulance",29,6020,1,2015,1006),
(16,"MH04ES2128","Basic Life Support (BLS) Ambulances",32,6008,0,2016,1011),
(16,"MH04ES2128","Basic Life Support (BLS) Ambulances",32,6012,1,2016,1002),
(16,"MH04ES2128","Basic Life Support (BLS) Ambulances",32,6020,0,2016,1001),
(19, "MH04ES1540", "Basic Life Support (BLS) Ambulances", 35, 6019, 1, 2001, 1005),
(19,"MH04ES1540","Basic Life Support (BLS) Ambulances",35,6008,0,2001,1004),
(19, "MH04ES1540", "Basic Life Support (BLS) Ambulances", 35, 6008, 0, 2001, 1011),
(22,"MH04ES3318","Basic Life Support (BLS) Ambulances",99,6008,0,2010,),
(22,"MH04ES3318","Basic Life Support (BLS) Ambulances",99,6008,0,2010),
(22,"MH04ES3318","Basic Life Support (BLS) Ambulances",99,6008,0,2010),
(35,"MH04ES5570","Advanced Life Support (ALS) Ambulances",110,6005,1,2010),
(35, "MH04ES5570", "Advanced Life Support (ALS) Ambulances", 110, 6015, 1, 2010),
(35, "MH04ES5570", "Advanced Life Support (ALS) Ambulances", 110, 6017, 1, 2010),
(39,"MH04ES0318","Basic Life Support (BLS) Ambulances",115,6008,0,2012),
(39, "MH04ES0318", "Basic Life Support (BLS) Ambulances", 115, 6008, 0, 2012),
(39, "MH04ES0318", "Basic Life Support (BLS) Ambulances", 115, 6008, 0, 2012),
(40,"MH04ES2612","Intensive Care Unit (ICU) Ambulance",130,6014,1,2015),
(40,"MH04ES2612","Intensive Care Unit (ICU) Ambulance",130,6007,2,2015),
(40,"MH04ES2612","Intensive Care Unit (ICU) Ambulance",130,6019,1,2015),
(44,"MH04ES4983","Basic Life Support (BLS) Ambulances",112,6008,0,2001),
(44,"MH04ES4983","Basic Life Support (BLS) Ambulances",112,6008,0,2001),
(44,"MH04ES4983","Basic Life Support (BLS) Ambulances",112,6008,0,2001),
(55, "MH04ES0087", "Basic Life Support (BLS) Ambulances", 122, 6008, 0, 2005),
(55, "MH04ES0087", "Basic Life Support (BLS) Ambulances", 122, 6008, 0, 2005),
(55, "MH04ES0087", "Basic Life Support (BLS) Ambulances", 122, 6008, 0, 2005),
```

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```
(44,"MH04ES2128","Basic Life Support (BLS) Ambulances",148,6009,2,2010), (44,"MH04ES2128","Basic Life Support (BLS) Ambulances",148,6013,1,2010), (44,"MH04ES2128","Basic Life Support (BLS) Ambulances",148,6008,0,2010), (12,"MH04ES1540","Basic Life Support (BLS) Ambulances",120,6008,1,2005), (12,"MH04ES1540","Basic Life Support (BLS) Ambulances",120,6020,1,2005), (12,"MH04ES1540","Basic Life Support (BLS) Ambulances",120,6008,0,2005), (2,"MH04ES3318","Basic Life Support (BLS) Ambulances",130,6008,0,2001), (2,"MH04ES3318","Basic Life Support (BLS) Ambulances",130,6008,0,2001), (2,"MH04ES3318","Basic Life Support (BLS) Ambulances",130,6008,0,2001), (1,"MH04ES5570","Advanced Life Support (ALS) Ambulances",135,6007,1,2015), (1,"MH04ES5570","Advanced Life Support (ALS) Ambulances",135,6016,1,2015), (1,"MH04ES5570","Advanced Life Support (ALS) Ambulances",135,6019,1,2015);
```

Queries

o **Joins**:

1. Select user who book an ambulance.

select
distinct u.user_id,u.f_name,u.l_name
from user u inner join ambulance a
on u.user_id=a.user_id;

+ user_id +	+ f_name +	++ l_name ++
1	 Hridayesh	More
2	Rahul	Agarwal
5	Amit	Babu
10	Shyam	More
12	Aryan	Bhatt
16	priya	More
19	Divya	Ahuja
22	Vani	More
35	Ajith	More
39	Virat	Babu
40	Shreyas	More
44	Smriti	Bedi
55	Karan	Agarwal
+	+	++

2. Select tools used in MH04ES1009 and MH04ES2128 and its quantity.

select

a.p_id,a.Plate_no,t.t_id,t.description,a.t_quantity
from ambulance a inner join tool t
on a.t_id = t.t_id where a.Plate_no
in ("MH04ES1009","MH04ES2128");

++ p_id	 Plate_no	+ t_id +	description	++ t_quantity
148	MH04ES2128	6009	Oxygen Cylinder	2
27	MH04ES1009	6011	Wheelchair	1
32	MH04ES2128	6012	Wheelchair	1
148	MH04ES2128	6013	Wheelchair	1
27	MH04ES1009	6017	Sucktion Unit	1

3.select all the patient which book advanced life support ambulance along with the name of person who booked, its contact and name of the hospital to which patient has been dropped.

```
select
distinct u.f_name as user_name,
u.contact,concat(p.f_name," ",p.l_name) as patient_name,
a.type,h.name as Hospital
from user u inner join patient p
inner join ambulance a
inner join hospital h
on u.user_id = p.ref_u_id and
p.p_id = a.p_id and
a.drop_H_id = h.h_id
where type = "Advanced Life Support (ALS) Ambulances";
```

+	+	+	-+
user_name contact	patient_name	type	
Ajith 3241342	288 Ajeet sawant	Advanced Life Support (ALS) Ambulances Advanced Life Support (ALS) Ambulances Advanced Life Support (ALS) Ambulances	S L Raheja Hospital

4. Select user who does not book ambulance.

select

* from user where user_id not in (select distinct u.user_id from user u inner join ambulance a on u.user_id=a.user_id);

+				.
user_id	f name	l_name	email	contact
+	1_11dillC			++
3	Abhishek	Ahuja	Abhishek@gmail.com	0520247293
4	Aditya	Apte	Aditya@gmail.com	9887662982
6	Mahesh	Basu	Mahesh@gmail.com	8910821862
7	Rohit	Batra	Rohit@gmail.com	2923415612
8	Yash	Bedi	Yash@gmail.com	6805974275
9	Ankit	Agarwal	Ankit@gmail.com	8380712682
11	Deepak	More	Deepak@gmail.com	3169104514
13	Raj	Jadhav	Raj@gmail.com	5688757032
14	Arjun	Sawant	Arjun@gmail.com	9140557224
15	Manoj	More	Manoj@gmail.com	0290728921
17	Tanya	Apte	Tanya@gmail.com	1028536626
18	Priyanka	More	Priyanka@gmail.com	8855942081
20	Tanvi	Babu	Tanvi@gmail.com	1068684210
21	Ishita	Jadhav	Ishita@gmail.com	3842559984
23	Anjali	Agarwal	Anjali@gmail.com	3986035376
24	Shreya	More	Shreya@gmail.com	3605031062
25	Riya	Basu	Riya@gmail.com	1818791056
26	Sneha	Sawant	Sneha@gmail.com	3593137640
27	Gayatri	Bhatt	Gayatri@gmail.com	9099012225
28	Varsha	Batra	Varsha@gmail.com	2015863235
29	Ira	More	Ira@gmail.com	0714791644
30	Sanjana	Jadhav	Sanjana@gmail.com	9782134617
31	Nikita	Ahuja	Nikita@gmail.com	5922055243
32	Vivek	More	Vivek@gmail.com	4353438175
33	Parth	Sawant	Parth@gmail.com	0502501223
34	Soham	Agarwal	Soham@gmail.com	2772955218
36	Abhi	Apte	Abhi@gmail.com	6552984040
37	Pratik	More	Pratik@gmail.com	7034283698
38	Rishab	Basu	Rishab@gmail.com	6812023628
41	Bumrah	Ahuja	Bumrah@gmail.com	0812097892
42	Jay	More	Jay@gmail.com	0711901759
43	Tanu	Jadhav	Tanu@gmail.com	8867370401
45	Radha	Bhatt	Radha@gmail.com	8715232080
46	Pooja	Sawant	Pooja@gmail.com	2994827785
47	Diya	Agarwal	Diya@gmail.com	9026748974
48	Divya	More	Divya@gmail.com	0454007167
49	Prachi	Batra	Prachi@gmail.com	5214148932
50	Arti	Basu	Arti@gmail.com	3445976861
51	Sam	Jadhav	Sam@gmail.com	0348273907
52	Mitali	Ahuja	Mitali@gmail.com	7738346301
53	Ajeet	Bedi	Ajeet@gmail.com	7228756301
54	Atul	Babu	Atul@gmail.com	1138756301
56	Paras	Apte	Paras@gmail.com	3438756301
+		Apec		

5.Get contact of staff who carried patient_id 110,130 and 25 and its dropped hospital.

select

in(110,130,25) order by p_id;

p.p_id,concat(p.f_name," ",p.l_name) as

Patient_Name,a.s_id,s.s_name,s.ph_no,a.drop_H_id,h.name

from patient p inner join ambulance a

inner join staff s inner join hospital h

on p.p_id = a.p_id and a.s_id = s.s_id and a.drop_H_id = h.h_id where p.p_id

p_id	Patient_Name	s_id	s_name	ph_no	drop_H_id	name
25 25 25 110 110 130 130 130 130 130	Deepa Jadhav Deepa Jadhav Deepa Jadhav Ajeet sawant Ajeet sawant Krish sawant Krish sawant Krish sawant Krish sawant Krish sawant	1002 1006 1005 1006 1007 1007 1010 1011 1008 1009	Tara Singh Sam Bahadur Mogambo Mahendra Bahubali Mogambo Shehensha Shehensha Sanjay Malhotra Phunsukh Wangdu Bhiku Mhatre Tara Singh Sanjay Malhotra	9905643678 8975678871 6744558090 6785943045 6744558090 2345678871 2345678871 8899943045 8844558090 2908998954 9905643678 8899943045	2001 2001 2001 2010 2010 2010 2015 2015	KEM KEM KEM S L Raheja Hospital S L Raheja Hospital S L Raheja Hospital KEM Fortis Hospital Fortis Hospital KEM Fortis Hospital

6.select all the user from user table along with its patient name.

select

u.user_id,concat(u.f_name," ",u.l_name),p.p_id,concat(p.f_name," ",p.l_name) from user u left join patient p

on u.user_id = p.ref_u_id;

+	concat(u.f_name," ",u.l_name)	+ p_id	+
1	Hridayesh More	 l 25	 Deepa Jadhav
i 1	Hridayesh More	33	Rashi Dayal
1	Hridayesh More	127	Rishikesh Jadhav
1	Hridayesh More	135	Manu sawant
1	Hridayesh More	141	Ajay More
2	Rahul Agarwal	130	Krish sawant
2	Rahul Agarwal	142	vijay Jadhav
3	Abhishek Ahuja	26	Khushi Lad
] 3	Abhishek Ahuja	143	Dhanush Jadhav
3	Abhishek Ahuja	149	Priyanka Jadhav
4	Aditya Apte	144	Prabhas Jadhav
5	Amit Babu	27	Anu More
5	Amit Babu	109	Harish Jadhav
5	Amit Babu	145	Alia Lad
6	Mahesh Basu	146	Kirti Dayal
7	Rohit Batra	147	Pooja Lad
8	Yash Bedi	128	Rutvik Dayal
9	Ankit Agarwal	111	Pranay More
10	Shyam More	29	Lily sawant
10	Shyam More	126	Pranav More
11	Deepak More	NULL	NULL
12	Aryan Bhatt	108	Sarah More
12	Aryan Bhatt	120	Akash More
13	Raj Jadhav	NULL	NULL
14	Arjun Sawant	NULL	NULL
15	Manoj More	140	Salman sawant
16	priya More	32	Kavya Jadhav

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40	Shreyas More	124	Shail sawant
41	Bumrah Ahuja	NULL	NULL
42	Jay More	116	Shrutik More
43	Tanu Jadhav	NULL	NULL
44	Smriti Bedi	112	Parag sawant
44	Smriti Bedi	148	Shruti More
45	Radha Bhatt	30	Sarah More
46	Pooja Sawant	34	Niti More
47	Diya Agarwal	117	Shekar sawant
47	Diya Agarwal	131	Abhi More
48	Divya More	NULL	NULL
49	Prachi Batra	118	Sumit Dayal
50	Arti Basu	125	Sunil Jadhav
50	Arti Basu	132	John sawant
51	Sam Jadhav	133	Shlok sawant
52	Mitali Ahuja	134	Alok Jadhav
53	Ajeet Bedi	NULL	NULL
54	Atul Babu	136	Paaus Dayal
55	Karan Agarwal	122	Rajeev sawant
55	Karan Agarwal	137	Varun sawant
56	Paras Apte	NULL	j NULL j
+	+	+	++

○ Sub Query:

1.show plate_no drove by sam bahadur.

```
select
plate_no from ambulance
where s_id =
(select s_id from staff where s_name = "Sam Bahadur");
```

```
+----+
| plate_no |
+----+
| MH04ES3127 |
| MH04ES2128 |
| MH04ES0318 |
| MH04ES2128 |
```

2.Get patient name along with its user mobile_number whos age is less than 18years and booked ICU ambulance.

select
concat(f_name," ",l_name),ref_u_id,location,
(select contact from user where user_id = ref_u_id) as contact
from patient where p_id =
(select distinct p_id from ambulance where p_id in (select p_id from patient p
where DATE_FORMAT(FROM_DAYS(DATEDIFF(NOW(),Date_of_birth)),
'%Y') + 0 <18) and type = "Intensive Care Unit (ICU) Ambulance");

+			·+
concat(f_name," ",l_name)	ref_u_id	location	contact
Krish sawant	2	badlapur	9936458614

3. Select user who booked more than 2 times.

select

* from user where user_id in
(select user_id from
(select user_id,row_number() over(partition by user_id) as r_n
from ambulance) t
where t.r_n>=6);

+ user_id		l_name	email	contact
1	Hridayesh	More	hridayesh@gmail.com	7738756301
2	Rahul	Agarwal	Rahul@gmail.com	9936458614
5	Amit	Babu	Amit@gmail.com	6869667930
10	Shyam	More	Shyam@gmail.com	5304072160
12	Aryan	Bhatt	Aryan@gmail.com	1575371522
16	priya	More	priya@gmail.com	4827352756
19	Divya	Ahuja	Divya@gmail.com	2432868179
22	Vani	More	Vani@gmail.com	6988087182
35	Ajith	More	Ajith@gmail.com	3241342288
39	Virat	Babu	Virat@gmail.com	7295015429
40	Shreyas	More	Shreyas@gmail.com	6195108224
44	Smriti	Bedi	Smriti@gmail.com	9588570320
55	Karan	Agarwal	Karan@gmail.com	7738751201
+	·		 	·+

4. Select user who cancelled booking or booking got cancelled by ambulance.

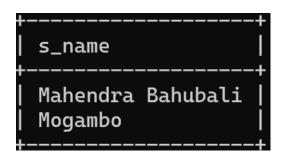
```
select
p_id,ref_u_id,concat(f_name," ",l_name)
from patient where p_id not in
(select p_id from ambulance);
```

p_id	ref_u_id	
p_1a	ret_u_ia 	concac(+_name," ",t_name)
24	23	Rashi sawant
26	3	Khushi Lad
28	24	Angel Lad
30	45	Sarah More
31	33	Diksha sawant
33	1	Rashi Dayal
34	46	Niti More
36	36	Dia Lad
37	36	Sam sawant
107	22	Ishika sawant
108	12	Sarah More
109	5	Harish Jadhav
111	9	Pranay More
113	34	Yash Lad
114	32	Jayesh sawant
116	42	Shrutik More
117	47	Shekar sawant
118	49	Sumit Dayal
119	36	Deep sawant
121	21	Paras Lad
123 124	30 40	Shashank Jadhav Shail sawant
124 125	50	Shait Sawant Sunil Jadhav
126	10	Pranav More
127	10	Rishikesh Jadhav
128	8	Rutvik Daval
129	27	Sonu Lad
131	47	Abhi More
132	50	John sawant
133	51	Shlok sawant
134	52	Alok Jadhav
136	54	Paaus Dayal
137	55	Varun sawant
138	35	Akshay Lad
139	25	Sharaukh sawant
140	15	Salman sawant
141	1	Ajay More
142	2	vijay Jadhav
143	3	Dhanush Jadhav
144	4	Prabhas Jadhav
145		Alia Lad
146	6	Kirti Dayal
147	7	Pooja Lad
149	3	Priyanka Jadhav
+		

5. Find the name of employee who make most trip.

select

s_name from staff where s_id in (select distinct s_id from (select s_id,row_number() over(partition by s_id) as r_n from ambulance) t where t.r_n >5);

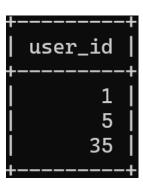


6. Find the user who booked Advanced life Support Ambulance.

select

distinct user_id from ambulance

where type = "Advanced Life Support (ALS) Ambulances";



Stored Procedure

1.Generate a bill for patient.

MariaDB [ambulance_booking_system]> create procedure bill(in pid int)

- -> begin
- -> select a.user_id,a.p_id,a.type,at.price from ambulance a inner join ambulance_type_cost at on a.type = at.type group by p_id having p_id = pid;
- -> select a.user_id,a.p_id,a.t_id,t.rate from ambulance a inner join tool t on a.t_id = t.t_id where p_id = pid;
- -> select u.user_id,a.type,a.p_id,(sum(t.rate) + at.price) as total_amount from user as u inner join ambulance as a inner join ambulance_type_cost as at inner join tool as t on u.user_id = a.user_id and a.type = at.type and a.t_id=t.t_id group by a.p_id having a.p_id = pid;
- -> end
- -> //

MariaDB [ambulance_booking_system]> call bill(29);

Output:

```
user_id | p_id |
                   tvpe
                                                            price
                   Intensive Care Unit (ICU) Ambulance
       10
              29
                                                           10000
1 row in set (0.001 sec)
 user_id
           p_id | t_id
                           2000
       10
              29
                    6000
       10
              29
                    6016
                           5000
              29
       10
                    6020
                           2000
3 rows in set (0.005 sec)
 user_id
           type
                                                    p_id |
                                                           total_amount
           Intensive Care Unit (ICU) Ambulance
       10
                                                       29
                                                                   19000
```