

# Hospital Management Database

## Sql project

### Q1. Create tables

- Create table Doctor with field names as dr\_code, Name, Gender and dr\_code as primary key

```
MariaDB [HMS]> create table Doctor ( dr_code int, name varchar(25), Gender enum("Male", "Female"), primary key (dr_code));
Query OK, 0 rows affected (0.023 sec)
```

- Create table Patient with field names as pat\_id, fname, lname, gender, address, tell\_no, dr\_code and pat\_id as primary key

```
MariaDB [HMS]> create table Patient (pat_id int, fname varchar(15), lname varchar(15), gender enum("Male", "Female"), address varchar(35), tell_no numeric(10), dr_code int, primary key (pat_id), foreign key (dr_code) references Doctor(dr_code));
Query OK, 0 rows affected (0.026 sec)
```

- Create table staff with field names staff\_id, name, dept, gender, address, tell\_no, dr\_code

```
MariaDB [HMS]> create table staff (staff_id int, name varchar(20), dept varchar(20), gender enum("Male", "Female"), address varchar(30), tell_no numeric(10), dr_code int, primary key (staff_id), foreign key (dr_code) references Doctor(dr_code));
Query OK, 0 rows affected (0.025 sec)
```

- Create table patient\_diagnosis with field names diag\_no, diag\_details, remark, diagdate, other, pat\_id

```
MariaDB [HMS]> create table patient_diagnosis (diag_no int, diag_details varchar(20), remark varchar(40), diag_date date, other varchar(30) not null, pat_id int, primary key (diag_no), foreign key (pat_id) references Patient (pat_id));
Query OK, 0 rows affected (0.025 sec)
```

### Q2. Inserting values into the tables

- Insert values into the Doctor table

	dr_code	name	Gender
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Farhan Ali	Male
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Ajmal Hayat	Male
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Shreyash Jadhav	Male
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Vinay Pawshe	Male
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Ekta Vishwakarma	Female
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Rutu Pawnarkar	Female
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	Sara Rashid	Female
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	Aniket Patil	Male

- Insert values into the Patient table

				pat_id	fname	lname	gender	address	tell_no	dr_code
<input type="checkbox"/>				101	Madhuri	Godbole	Female	Nashik	9999999999	5
<input type="checkbox"/>				102	Ali	Azmat	Male	Swabi	8764415457	5
<input type="checkbox"/>				103	Priyansh	Mehta	Male	Kalyan	7466384932	4
<input type="checkbox"/>				105	Asha	Jadhav	Female	Panvel	9403035343	6
<input type="checkbox"/>				108	Shivam	Butala	Male	Raigad	9003890484	2
<input type="checkbox"/>				111	Shivani	Shirsath	Female	Shirdon	8573847345	8
<input type="checkbox"/>				114	Yash	Patil	Male	Chiplun	6456374836	7
<input type="checkbox"/>				117	Vijay	Bagade	Male	Nashik	7564738547	1
<input type="checkbox"/>				120	Shardul	Sonawne	Male	Kalyan	9347759348	4
<input type="checkbox"/>				123	Karan	Pandey	Male	Kalyan	7564839233	3
<input type="checkbox"/>				126	Mowazam	Ayan	Male	Pune	7564728375	4
<input type="checkbox"/>				129	Revti	Gujar	Female	Titwala	9585734384	1

- Insert values into the staff table

				staff_id	name	dept	gender	address	tell_no	dr_code
<input type="checkbox"/>				200	Pritam	OPD	Male	Swargate	987446353	NULL
<input type="checkbox"/>				201	Palwasha	OPD	Female	Swabi	3567746353	NULL
<input type="checkbox"/>				237	Sweety	OPD	Female	Shrivardhan	7564354635	NULL
<input type="checkbox"/>				241	Shivali	Lab	Female	Panvel	7384859282	NULL
<input type="checkbox"/>				243	Rima	Lab	Female	Nerul	8446181975	NULL
<input type="checkbox"/>				247	Rohit	OPD	Male	Panvel	9451644884	NULL

- Insert values into the patient\_diagnosis table

				diag_no	diag_details	remark	diag_date	other	pat_id
<input type="checkbox"/>				501	Fever	Serious	2022-06-03	admit	111
<input type="checkbox"/>				502	heart problem	Well	2022-06-04	no admit	105
<input type="checkbox"/>				503	High Sugar	Well	2022-06-05	Diet	111
<input type="checkbox"/>				504	Kidney fail	Serious	2022-06-12	Diet	111
<input type="checkbox"/>				505	Heart attack	Serious	2022-06-07	admit	111
<input type="checkbox"/>				506	eye	low sight	2022-06-29	Specs	111
<input type="checkbox"/>				507	eye	low sight	2022-07-02	Lazer Treatment	111
<input type="checkbox"/>				508	eye	redness	2022-06-15	Lazer Treatment	111
<input type="checkbox"/>				509	Head ach	Well	2022-07-04	Medicine	111
<input type="checkbox"/>				510	Low Sugar	Well	2022-07-03	Medicines	105

### Q3. Make the corrections in the patient\_diagnosis table in pat\_id column

```
1 UPDATE patient_diagnosis SET pat_id = (CASE when diag_no = 503 then 103 WHEN diag_no = 504 then 123 WHEN diag_no = 504 THEN 114 WHEN
diag_no = 505 THEN 120 WHEN diag_no = 506 THEN 117 WHEN diag_no = 507 THEN 111 WHEN diag_no = 508 THEN 102 WHEN diag_no = 509 then 101
END) WHERE diag_no In(503, 504, 505, 506, 507, 508, 509);
```

		diag_no	diag_details	remark	diag_date	other	pat_id
<input type="checkbox"/>	Edit  Copy  Delete	501	Fever	Serious	2022-06-03	admit	111
<input type="checkbox"/>	Edit  Copy  Delete	502	heart problem	Well	2022-06-04	no admit	105
<input type="checkbox"/>	Edit  Copy  Delete	503	High Sugar	Well	2022-06-05	Diet	103
<input type="checkbox"/>	Edit  Copy  Delete	504	Kidney fail	Serious	2022-06-12	Diet	123
<input type="checkbox"/>	Edit  Copy  Delete	505	Heart attack	Serious	2022-06-07	admit	<a href="#">120</a>
<input type="checkbox"/>	Edit  Copy  Delete	506	eye	low sight	2022-06-29	Specs	117
<input type="checkbox"/>	Edit  Copy  Delete	507	eye	low sight	2022-07-02	Lazer Treatment	111
<input type="checkbox"/>	Edit  Copy  Delete	508	eye	redness	2022-06-15	Lazer Treatment	102
<input type="checkbox"/>	Edit  Copy  Delete	509	Head ach	Well	2022-07-04	Medicine	101
<input type="checkbox"/>	Edit  Copy  Delete	510	Low Sugar	Well	2022-07-03	Medicines	105

☐ Check all    With selected: Edit Copy Delete Export

### Q4. Change the department of Palwasha to Accounting

```
1 UPDATE staff
2 set dept = "Accounting"
3 WHERE name = "Palwasha";
```

		staff_id	name	dept	gender	address	tell_no	dr_code
<input type="checkbox"/>	Edit	200	Pritam	OPD	Male	Swargate	987446353	NULL
<input type="checkbox"/>	Edit  Copy  Delete	201	Palwasha	Accounting	Female	Swabi	3567746353	NULL
<input type="checkbox"/>	Edit  Copy  Delete	237	Sweety	OPD	Female	Shrivardhan	7564354635	NULL
<input type="checkbox"/>	Edit  Copy  Delete	241	Shivali	Lab	Female	Parvel	7384859282	NULL
<input type="checkbox"/>	Edit  Copy  Delete	243	Rima	Lab	Female	Nerul	8446181975	NULL
<input type="checkbox"/>	Edit  Copy  Delete	247	Rohit	OPD	Male	Parvel	9451644884	NULL

Click the drop-down arrow to toggle column's visibility.

### Q 5. Find a Name of the patients who are serious

```
1 SELECT concat(patient.fname," ", patient.lname) as patient_name, patient.pat_id, patient_diagnosis.diag_no
2 FROM patient INNER JOIN patient_diagnosis
3 ON patient.pat_id = patient_diagnosis.pat_id
4 WHERE patient_diagnosis.remark = "Serious"
```

patient_name	pat_id	diag_no
Shivani Shirsath	111	501
Karan Pandey	123	504
Shardul Sonawne	120	505

Q6. Find the doctors name who have given treatment on eye problem

```
1 Select doctor.dr_code, doctor.name
2 from patient_diagnosis RIGHT JOIN patient on patient_diagnosis.pat_id = patient.pat_id
3 RIGHT JOIN doctor ON doctor.dr_code = patient.dr_code
4 WHERE patient_diagnosis.diag_details = "eye";
```

dr_code	name
1	Farhan Ali
8	Aniket Patil
5	Ekta Vishwakarma

Q7. Find a Patient name, patient id, patient contact no. Who has attended Dr. Rutu Pawnarkar's consultancy.

```
1 SELECT patient_diagnosis.pat_id, concat(patient.fname, " ", patient.lname) AS Patient_name, patient.tell_no
2 FROM patient_diagnosis RIGHT JOIN patient ON patient_diagnosis.pat_id = patient.pat_id
3 RIGHT JOIN doctor on patient.dr_code = doctor.dr_code
4 WHERE doctor.name = "Rutu Pawnarkar";
```

pat_id	Patient_name	tell_no
105	Asha Jadhav	9403035343
105	Asha Jadhav	9403035343

Q8 Find All Male patients

```
1 SELECT concat(fname, " ",lname) AS name FROM `patient` WHERE gender = "Male"
```

name
Ali Azmat
Priyansh Mehta
Shivam Butala
Yash Patil
Vijay Bagade
Shardul Sonawne
Karan Pandey
Mowazam Ayan

Q9 Find All Female Patients

```
1 SELECT concat(fname, " ",lname) AS name FROM `patient` WHERE gender = "Female"
```

name
Madhuri Godbole
Asha Jadhav
Shivani Shirsath
Revti Gujar

Q10 Find the address And contact of a patient having heart problem

```
1 SELECT concat(patient.fname, " ",patient.lname) AS name , patient.address , patient.tell_no
2 FROM `patient` INNER JOIN patient_diagnosis
3 ON patient.pat_id = patient_diagnosis.pat_id
4 WHERE patient_diagnosis.diag_details like ("heart%");
```

name	address	tell_no
Asha Jadhav	Panvel	9403035343
Shardul Sonawne	Kalyan	9347759348

Q11 Find the patients name And contact Which are from kalyan

```
1 SELECT concat(fname, " ",lname) AS name , address, tell_no
2 FROM patient
3 WHERE address = "Kalyan";
```

name	address	tell_no
Priyansh Mehta	Kalyan	7466384932
Shardul Sonawne	Kalyan	9347759348
Karan Pandey	Kalyan	7564839233

Q12. Find patients who had attended hospital on 03-06-2022 date

```
1 SELECT concat(fname, " ",lname) AS name
2 FROM patient
3 WHERE pat_id = (SELECT pat_id FROM patient_diagnosis WHERE diag_date = '2022-06-03');
```

name
Shivani Shirsath

Q13. Find Patient name, diag\_details who were admitted.

```
1 SELECT concat(patient.fname, " ",patient.lname) AS name, patient_diagnosis.diag_details
2 FROM patient JOIN patient_diagnosis ON patient_diagnosis.pat_id = patient.pat_id
3 WHERE patient_diagnosis.other = "admit";
```

name	diag_details
Shivani Shirsath	Fever
Shardul Sonawne	Heart attack

Q14 What is the remark and diagnosis details for patent name vijay bagade.

```
1 SELECT concat(patient.fname, " ",patient.lname) AS name, patient_diagnosis.diag_details, patient_diagnosis.remark
2 FROM patient JOIN patient_diagnosis ON patient_diagnosis.pat_id = patient.pat_id
3 WHERE patient.fname = "vijay" AND patient.lname = "Bagade";
```

name	diag_details	remark
Vijay Bagade	eye	low sight