

```
create table member
(mcode int(6) primary key,
mname varchar(25) not null,
madd varchar(30),
course varchar(15),
admit_date date);
```

```
insert into member values(101, 'Nisha', 'Pune','DSDA', '2023-06-01');
insert into member values(102, 'Kanisha', 'Delhi','DSDA', '2023-06-02');
insert into member values(103, 'Ajesh', 'Kochi','DSDA', '2023-06-03');
insert into member values(104, 'Rahul', 'Bengalore','DSDA', '2023-06-02');
insert into member values(105, 'Raj', 'Pune','ITBM', '2023-06-01');
insert into member values(106, 'John', 'Delhi','ITBM', '2023-06-02');
insert into member values(107, 'Mohmd', 'Kochi','ITBM', '2023-06-03');
insert into member values(108, 'Ali', 'Bengalore','ITBM', '2023-06-02');
insert into member values(109, 'Ram', 'Pune','DSDA', '2022-06-01');
insert into member values(110, 'Kevin', 'Delhi','DSDA', '2022-06-02');
```

```
create table book
(bno int(5) primary key,
bname varchar(20) not null,
publisher varchar(30));
```

```
insert into book values(9900,'Python','Mc grills');
insert into book values(9901,'Data Mining','Popular');
insert into book values(9903,'Finance','BNP Pub');
insert into book values(9905,'SQL','MC Grown');
```

```
create table book_issu
(bno int(5) references book,
```

```
mcode int(6) references member,  
issue_date date,  
returned_date date,  
fine_amt int(3));
```

```
insert into book_issu values(9900,101,'2023-7-2','2023-7-21',150);  
insert into book_issu values(9900,102,'2023-7-21','2023-7-27',0);  
insert into book_issu values(9903,105,'2023-7-12','2023-7-21',15);  
insert into book_issu values(9905,103,'2023-7-11','2023-7-27',170);
```

```
SELECT * FROM member;  
  
select * from book;  
  
select * from book_issu;
```

#1 ADD NEW COLUMN SUBJECT TO BOOK

```
Alter table book Add column subject varchar(30);  
  
describe book;
```

#2 ADD NEW RECORD IN BOOK TABLE

```
insert into book values(9906,'Java','Test','Coding');
```

#3 MEMBERS STAYING IN Pune

```
select mname from member where madd="Pune";
```

#4 BOOKS PUBLISHED BY BNP publishers

```
select bname from book where publisher="BNP Pub";
```

#5 NO OF TIMES 'Python' IS ISSUED

```
select count(*) from book b, book_issu bi where b.bno=bi.bno and bname="Python";
```

#6 DETAILS OF MEMBERS WHO HAVE NOT RETURNED BOOKS IN TIME

```
select m.mcode, m.mname, m.madd, m.course, m.admit_date from member m, book_issu bi
where m.mcode=bi.mcode and bi.fine_amt != 0;
```

#7 MEMBER WHOSE COURSE IS DSDA AND ADMISSION ON 2022

```
select * from member where course="DSDA" and YEAR(admit_date)=2022;
```

#8 MEMBER NAME AND ADMISSION DATE FORMATTED AS “ %D %M %Y”

```
select mname, date_format(admit_date, "%D %M %Y") as New_Date from member;
```

```
create table doctor
```

```
(
```

```
d_no varchar(5) primary key,
```

```
d_name varchar(20) not null,
```

```
addr varchar(20));
```

```
create table patient
```

```
(
```

```
p_no varchar(5) primary key,
```

```
p_name varchar(20) not null,
```

```
addr varchar(10),
```

```
ad_dt date,
```

```
disease varchar(10),
```

```
dis_dt date,
```

```
bill_amt float(6,2),
```

```
d_no varchar(5) references doctor);
```

```
INSERT INTO doctor values('d101','Dr. SHARMA','Aundh');
```

```
INSERT INTO doctor values('d102','Dr. VERMA','Hinjewadi');
```

```
INSERT INTO doctor values('d103','Dr. SINGH','Shivajinagar');
```

```
INSERT INTO patient values('p01','nisha','Aundh','2023-7-24','Fever','2023-7-28',4500.75,'d101');
```

```
INSERT INTO patient values('p02','Akash','Aundh','2023-7-22','Fever','2023-7-26',3500.5,'d102');
```

```
INSERT INTO patient values('p03','Aditi','hinjewadi','2023-6-24','Cough','2023-6-28',4500.75,'d101');
```

```
INSERT INTO patient values('p04','Ankush','Baner','2023-6-22','Cough','2023-6-26',3500.5,'d103');
```

```
SELECT * FROM doctor;
```

```
select * FROM patient;
```

#1 Patients treated by Dr.Sharma

```
select * from patient p, doctor d where p.d_no= d.d_no and d_name="Dr. SHARMA";
```

#2 No of patients treated by each doctor

```
select count(*),d.d_name from patient p inner join doctor d on p.d_no= d.d_no group by p.d_no;
```

#3 Total bill for the month of July

```
select sum(bill_amt) from patient where month(dis_dt)=7;
```

#4 Name of patient who discharged on a Monday

```
select p_name from patient where DAYNAME(dis_dt)='Monday';
```

#5 Name of patient who was admitted for more than 5 days in hospital

```
select p_name from patient where DATEDIFF(dis_dt,ad_dt) >5;
```

```
select DATEDIFF(dis_dt,ad_dt) from patient;
```

```
create table student_new
```

```
(roll_no int(6) primary key,  
S_name varchar(40) not null,  
graduation varchar(10) not null,  
age int(2) not null,  
date_admin date not null,  
fees_paid float(8,2) not null,  
category varchar(10),  
course_code varchar(6) references course);
```

```
create table course  
(course_code varchar(6) primary key,  
name_of_course varchar(30) not null,  
duration int(2) DEFAULT 2);
```

```
insert into course(course_code,name_of_course) values('MBA_01','MBA DSDA');  
insert into course(course_code,name_of_course) values('MBA_02','MBA ITBM');  
insert into course(course_code,name_of_course) values('MBA_03','MBA HR');  
insert into course(course_code,name_of_course) values('MBA_04','MBA FINANCE');
```

```
insert into student_new  
values(101,'Nisha', 'B TECH', 23,'2023-6-5',100000,'Open','MBA_01');  
insert into student_new  
values(102,'AKASH', 'BBA', 23,'2023-6-2',104000,'Open','MBA_04');  
insert into student_new  
values(103,'Aleena', 'BCA', 23,'2023-6-4',200000,'QUATA','MBA_02');  
insert into student_new  
values(104,'Amrutha', 'B TECH', 23,'2023-6-2',104000,'Open','MBA_04');
```

```
SELECT * FROM course;  
SELECT * FROM student_new;
```

#1 Student whose name has two 'a'

```
select * from student_new where S_name like "%a%a%";
```

#2 Admission date and day of 'Nisha'

```
select DATE(date_admin) as Date, DAYNAME(date_admin) as Day from student_new where S_name = "Nisha";
```

#3 Number of days after 'nisha' took admission

#4 name of the course which does not have enrolled students

```
select name_of_course from course where name_of_course NOT IN  
( select c.name_of_course from course c, student_new s where c.course_code=s.course_code);
```

#5 Roll number and name of students who paid fees more than the average fees of all

```
select roll_no, S_name from student_new where fees_paid > ( select Avg(fees_paid) from  
student_new);
```

#6 List all students who are earliest and latest in the college

```
select * from student_new where date_admin IN (select min(date_admin) from student_new  
UNION select max(date_admin) from student_new);
```