

CSE 2003

DATABASE MANAGEMENT SYSTEM



Cyclesheet – 1

L11+L12 | SJT419

FALL SEMESTER 2020-21

by

SHARADINDU ADHIKARI

19BCE2105

Question 1

Create all tables in Hospital database as per the requirement given below:

- a) The primary key for each table to be created as specified (ref. database)
- b) Appropriate data type and size should be chosen for each attribute
- c) Appropriate integrity constraints should be used while creating tables (NULL, NOT NULL, FOREIGN KEY, CHECK)
- d) The values for some attributes should be as follows: include appropriate CHECK constraint to achieve them
 - i) Primary key values should be created with uniformity. For example, Doc_ID can be like 'D0001' [five characters long and start with 'D'], Staff_ID like 'S0001', Pres_ID like 'PR00001' and so on
 - ii) Attributes and permitted values (you can decide and include such values wherever required)

Attributes	Table	Permitted values
Qualification	Doctor	'MBBS', 'MS', 'MD', 'BDS', 'MDS', ...
Specialist	Doctor	'Diabetes', 'Ophthalmology', 'Cardiology', 'General medicine', ...
Dept_Name	Department	'Cardiology', 'Intensive care unit', 'Neurology', 'Oncology', 'Obstetrics and gynaecology', 'Diabetes', ...
Estd_Date	Department	Should be later than '01-Jan-2010'.
Category	Staff	'Nurse', 'Lab technician', 'Attender', 'Helper', ...
Designation	Staff	'Staff nurse', 'Head nurse', 'Technician', 'Senior technician', 'Senior attender', 'Junior attender', ...
Gender	Patient	'M', 'F', and 'T' (for third gender)
Start_time	In_Patient	Date in start_time attribute should not be older than the date_of_admission value. Also, it should not be later than End_time.
Description	Test_Types	You can use the names of tests like 'Blood test', 'Urine test', etc.

Creating tables for hospital database in SQL worksheet:

#1. Doctor table:

```
create table Doctor(
Doc_ID char(5) primary key CHECK(Doc_id like 'D%' and length(Doc_ID)=5),
Doc_Name varchar2(25) not null,
Gender char(1) not null,
DOB date not null,
Specialist varchar2(25) not null,
Qualification varchar2(25) not null,
Contact number(10) not null,
Address varchar2(30) not null,
Dept_no char(5) not null)
```

SQL Worksheet



```
1 create table Doctor(  
2 Doc_ID char(5) primary key CHECK(Doc_id like 'D%' and length(Doc_ID)=5),  
3 Doc_Name varchar2(25) not null,  
4 Gender char(1) not null,  
5 DOB date not null,  
6 Specialist varchar2(25) not null,  
7 Qualification varchar2(25) not null,  
8 Contact number(10) not null,  
9 Address varchar2(30) not null,  
10 Dept_no char(5) not null)  
11
```

Table created.

#2. Department table:

```
create table Department(  
Dept_No char(5) primary key,  
Dept_Name varchar2(25) not null,  
Room_No number(4) not null,  
Floor number(2) not null,  
HOD varchar2(25) not null,  
Estd_Date date not null);
```

SQL Worksheet



```
1 create table Department(  
2 Dept_No char(5) primary key,  
3 Dept_Name varchar2(25) not null,  
4 Room_No number(4) not null,  
5 Floor number(2) not null,  
6 HOD varchar2(25) not null,  
7 Estd_Date date not null);  
8
```

Table created.

#3. Staff table:

```
create table Staff(  
Staff_ID char(5) primary key CHECK(Staff_ID like 'S%' and  
length(Staff_ID)=5),  
Staff_Name varchar2(25) not null,  
Category_ varchar2(10) not null,  
Designation varchar2(20) not null,  
DOB date not null,  
Contact number(10) not null,  
Address varchar2(30) not null,  
Dept_no char(5) not null CHECK(Dept_No like 'DP%' and length(Dept_No)=5))
```

SQL Worksheet



```
1 create table Staff(  
2 Staff_ID char(5) primary key CHECK(Staff_ID like 'S%' and length(Staff_ID)=5),  
3 Staff_Name varchar2(25) not null,  
4 Category_ varchar2(10) not null,  
5 Designation varchar2(20) not null,  
6 DOB date not null,  
7 Contact number(10) not null,  
8 Address varchar2(30) not null,  
9 Dept_no char(5) not null CHECK(Dept_No like 'DP%' and length(Dept_No)=5))  
10
```

Table created.

#4. Patient table:

```
create table Patient(  
Pat_ID char(5) primary key CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
Pat_Name varchar2(25) not null,  
DOB date not null,  
Gender char(1) not null,  
Contact number(10) not null,  
Address varchar2(30) not null)
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 create table Patient(  
2 Pat_ID char(5) primary key CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
3 Pat_Name varchar2(25) not null,  
4 DOB date not null,  
5 Gender char(1) not null,  
6 Contact number(10) not null,  
7 Address varchar2(30) not null)  
8
```

Table created.

#5. In_Patient table:

```
create table In_Patient(  
Pat_ID char(5) not null,  
Date_of_admission date not null,  
Bed_No number(4) not null,  
Start_Time timestamp not null,  
End_Time timestamp not null);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 create table In_Patient(  
2 Pat_ID char(5) not null,  
3 Date_of_admission date not null,  
4 Bed_No number(4) not null,  
5 Start_Time timestamp not null,  
6 End_Time timestamp not null);  
7
```

Table created.

#6. In_Patient_Prescription table:

```
create table In_Patient_Prescription(  
Pat_ID char(5) not null CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
Pres_ID char(7) not null CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7)  
);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 create table In_Patient_Prescription(  
2 Pat_ID char(5) not null CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
3 Pres_ID char(7) not null CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7)  
4 );  
5
```

Table created.

#7. Appointment table:

```
create table Appointment(  
App_ID char(5) primary key CHECK( App_ID like 'APP%' and length(App_ID)=5),  
Pat_ID char(5) not null,  
Doc_ID char(5) not null CHECK(Doc_id like 'D%' and length(Doc_ID)=5),  
Nurse_ID char(5) not null,  
Consult_Room_No number(4) not null,  
Date_date not null,  
time_timestamp not null  
);
```

[Feedback](#) [Help](#) [sharadindu.adhikari2019@vitstudent.ac.in](#)

SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 create table Appointment(  
2 App_ID char(5) primary key CHECK( App_ID like 'APP%' and length(App_ID)=5),  
3 Pat_ID char(5) not null,  
4 Doc_ID char(5) not null CHECK(Doc_id like 'D%' and length(Doc_ID)=5),  
5 Nurse_ID char(5) not null,  
6 Consult_Room_No number(4) not null,  
7 Date_date not null,  
8 time_timestamp not null  
9 );  
10
```

Table created.

#8. Prescription table:

```
create table Prescription(  
Pres_ID char(7) primary key CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7),  
App_ID char(5) CHECK( App_ID like 'APP%' and length(App_ID)=5),  
Date_date not null,  
time_timestamp not null,  
Diagnosis_Detail varchar(30) not null  
);
```

[Feedback](#) [Help](#) [sharadindu.adhikari2019@vitstudent.ac.in](#)

SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 create table Prescription(  
2 Pres_ID char(7) primary key CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7),  
3 App_ID char(5) CHECK( App_ID like 'APP%' and length(App_ID)=5),  
4 Date_date not null,  
5 time_timestamp not null,  
6 Diagnosis_Detail varchar(30) not null  
7 );  
8
```

Table created.

#9. Prescribed_Medicines table:

```
create table Prescribed_Medicines(  
Pres_ID char(7) CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7),  
Medicine_Name varchar(15) not null,  
Dosage varchar(15) not null,  
Brand varchar(15) not null  
);
```

SQL Worksheet



Actions



Run

```
1 create table Prescribed_Medicines(  
2 Pres_ID char(7) CHECK(Pres_ID like 'PR%' and length(Pres_ID)=7),  
3 Medicine_Name varchar(15) not null,  
4 Dosage varchar(15) not null,  
5 Brand varchar(15) not null  
6 );  
7
```

Table created.

#10. Hospital_Bill table:

```
create table Hospital_Bill(  
Inv_No varchar(6) unique,  
Inv_Date date not null,  
Pat_ID char(5) CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
Bill_Amount number(8) not null,  
Payment_Type varchar(15) not null,  
discount number(2) not null  
);
```

SQL Worksheet



Actions



Run

```
1 create table Hospital_Bill(  
2 Inv_No varchar(6) unique,  
3 Inv_Date date not null,  
4 Pat_ID char(5) CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
5 Bill_Amount number(8) not null,  
6 Payment_Type varchar(15) not null,  
7 discount number(2) not null  
8 );  
9
```

Table created.

#11. Lab_Tests table:

```
create table Lab_Tests(  
Test_ID char(5) primary key CHECK(Test_ID like 'TI%' and length(Test_ID)=5),  
Pat_ID char(5) CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
Date_ date not null,  
time_ timestamp not null  
);
```

SQL Worksheet



Actions



Run

```
1 create table Lab_Tests(  
2 Test_ID char(5) primary key CHECK(Test_ID like 'TI%' and length(Test_ID)=5),  
3 Pat_ID char(5) CHECK( Pat_ID like 'PT%' and length(Pat_ID)=5),  
4 Date_ date not null,  
5 time_ timestamp not null  
6 );  
7
```

Table created.

#12. Test_results table:

```
create table Test_results(  
Test_ID char(5)CHECK(Test_ID like 'TI%' and length(Test_ID)=5),  
TT_ID char(5) CHECK( TT_ID like 'TT%' and length(TT_ID)=5),  
Result varchar(10) not null  
);
```

SQL Worksheet



Actions



Run

```
1 create table Test_results(  
2 Test_ID char(5) CHECK(Test_ID like 'TI%' and length(Test_ID)=5),  
3 TT_ID char(5) CHECK( TT_ID like 'TT%' and length(TT_ID)=5),  
4 Result varchar(10) not null  
5 );  
6
```

Table created.

#13. Test_Types table:

```
create table Test_Types(  
TT_ID char(5) primary key CHECK( TT_ID like 'TT%' and length(TT_ID)=5),  
Description varchar(20) not null,  
Low_value number(4) not null,  
High_value number(4) not null,  
Test_method varchar(15) not null,  
Technician char(5) not null )
```

SQL Worksheet



Actions



Run

```
1 create table Test_Types(  
2 TT_ID char(5) primary key CHECK( TT_ID like 'TT%' and length(TT_ID)=5),  
3 Description varchar(20) not null,  
4 Low_value number(4) not null,  
5 High_value number(4) not null,  
6 Test_method varchar(15) not null,  
7 Technician char(5) not null )  
8
```

Table created.

Created tables in SCHEMA:

Live SQL

Schema

Upload Script

Actions

+ Create Database Object

Search Database Obj

Schema

My Schema

Sort By

Name

Options

Primary Objects

Primary and Subordinate

Reset Search

APPOINTMENT

Table

Status: Valid

Created 9 minutes ago

HOSPITAL_BILL

Table

Status: Valid

Created 5 minutes ago

LAB_TESTS

Table

Status: Valid

Created 4 seconds ago

PRESCRIPTION

Table

Status: Valid

Created 8 minutes ago

TEST_TYPES

Table

Status: Valid

Created 2 minutes ago

DEPARTMENT

Table

Status: Valid

Created 12 minutes ago

IN_PATIENT

Table

Status: Valid

Created 11 minutes ago

PATIENT

Table

Status: Valid

Created 11 minutes ago

STAFF

Table

Status: Valid

Created 11 minutes ago

DOCTOR

Table

Status: Valid

Created 33 minutes ago

IN_PATIENT_PRESCRIPTION

Table

Status: Valid

Created 10 minutes ago

PRESCRIBED_MEDICINES

Table

Status: Valid

Created 7 minutes ago

TEST_RESULTS

Table

Status: Valid

Created 3 minutes ago

Question 2

Populate each table with appropriate, valid, and meaningful data.

#1. Doctor table:

```
insert into Doctor
with names as (
    select 'D0001','Abhishek Sharma','M',date'1990-01-
01'd,'Diabetes','MBBS',8529759229,'Borivali West','DP001'from dual union all
    select 'D0002','Akshat Sharma','M',date'1991-02-
02'd,'Opthamology','MD',8529759227,'Borivali East','DP002'from dual union all
    select 'D0003','Rajeev Sharma','M',date'1983-01-
03'd,'Cardiology','MBBS',8340613648,'Vellore','DP003'from dual union all
    select 'D0004','Medha Sharma','F',date'1984-02-10'd,'General
medicine','MD',8529759228,'Borivali West','DP004'from dual union all
    select 'D0005','Arjun Singh','M',date'1993-01-
20'd,'Neurology','MBBS',8526759229,'Worli','DP005'from dual
)
select * from names
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1  /*
2  insert into Doctor
3  with names as (
4      select 'D0001','Abhishek Sharma','M',date'1990-01-01'd,'Diabetes','MBBS',8529759229,'Borivali West','DP001'from dual union all
5      select 'D0002','Akshat Sharma','M',date'1991-02-02'd,'Opthamology','MD',8529759227,'Borivali East','DP002'from dual union all
6      select 'D0003','Rajeev Sharma','M',date'1983-01-03'd,'Cardiology','MBBS',8340613648,'Vellore','DP003'from dual union all
7      select 'D0004','Medha Sharma','F',date'1984-02-10'd,'General medicine','MD',8529759228,'Borivali West','DP004'from dual union all
8      select 'D0005','Arjun Singh','M',date'1993-01-20'd,'Neurology','MBBS',8526759229,'Worli','DP005'from dual
9  )
10 select * from names;
11 */
12 select * from doctor;
13
```

DOC_ID	DOC_NAME	GENDER	DOB	SPECIALIST	QUALIFICATION	CONTACT	ADDRESS	DEPT_NO
D0001	Abhishek Sharma	M	01-JAN-90	Diabetes	MBBS	8529759229	Borivali West	DP001
D0002	Akshat Sharma	M	02-FEB-91	Opthamology	MD	8529759227	Borivali East	DP002
D0003	Rajeev Sharma	M	03-JAN-83	Cardiology	MBBS	8340613648	Vellore	DP003
D0004	Medha Sharma	F	10-FEB-84	General medicine	MD	8529759228	Borivali West	DP004
D0005	Arjun Singh	M	20-JAN-93	Neurology	MBBS	8526759229	Worli	DP005

Download CSV

5 rows selected.

#2. Department table:

```
insert into Department
with names as (
    select 'DP001','Cardiology',1001,01,'D0001',date'2010-01-02'd from dual
union all
    select 'DP002','Intensive Care Unit',1002,01,'D0002',date'2010-03-01'd
from dual union all
    select 'DP003','Neurology',1003,03,'D0003',date'2013-04-01'd from dual
union all
    select 'DP004','Oncology',1004,04,'D0004',date'2012-01-11'd from dual
union all
    select 'DP005','Diabetes',1005,05,'D0005',date'2011-01-01'd from dual
)
select * from names
```


SQL Worksheet



Actions



```

1  /*
2  insert into Department
3  with names as (
4      select 'DP001','Cardiology',1001,01,'D0001',date'2010-01-02'd from dual union all
5      select 'DP002','Intensive Care Unit',1002,01,'D0002',date'2010-03-01'd from dual union all
6      select 'DP003','Neurology',1003,03,'D0003',date'2013-04-01'd from dual union all
7      select 'DP004','Oncology',1004,04,'D0004',date'2012-01-11'd from dual union all
8      select 'DP005','Diabetes',1005,05,'D0005',date'2011-01-01'd from dual
9  )
10 select * from names
11 */
12 select * from department;
13

```

DEPT_NO	DEPT_NAME	ROOM_NO	FLOOR	HOD	ESTD_DATE
DP001	Cardiology	1001	1	D0001	02-JAN-10
DP002	Intensive Care Unit	1002	1	D0002	01-MAR-10
DP003	Neurology	1003	3	D0003	01-APR-13
DP004	Oncology	1004	4	D0004	11-JAN-12
DP005	Diabetes	1005	5	D0005	01-JAN-11

Download CSV

5 rows selected.

#3. Staff table:

```

insert into Staff
with names as (
    select 'S0001','Sam','attender','Junior attender',date'1990-01-
01'd,8529759249,'Borivali West','DP001'from dual union all
    select 'S0002','Matt','attender','Senior attender',date'1991-02-
02'd,8529759257,'Borivali East','DP002'from dual union all
    select 'S0003','Ryan','Nurse','Head Nurse',date'1983-01-
03'd,8340613668,'Vellore','DP003'from dual union all
    select 'S0004','Joe','technician','Senior Technician',date'1984-02-
10'd,8529659228,'Borivali West','DP004'from dual union all
    select 'S0005','Nancy','Nurse','Staff Nurse',date'1993-01-
20'd,8526759234,'Worli','DP005'from dual
)
select * from names

```

SQL Worksheet



Actions



```

1  /*
2  insert into Staff
3  with names as (
4      select 'S0001','Sam','attender','Junior attender',date'1990-01-01'd,8529759249,'Borivali West','DP001'from dual union all
5      select 'S0002','Matt','attender','Senior attender',date'1991-02-02'd,8529759257,'Borivali East','DP002'from dual union all
6      select 'S0003','Ryan','Nurse','Head Nurse',date'1983-01-03'd,8340613668,'Vellore','DP003'from dual union all
7      select 'S0004','Joe','technician','Senior Technician',date'1984-02-10'd,8529659228,'Borivali West','DP004'from dual union all
8      select 'S0005','Nancy','Nurse','Staff Nurse',date'1993-01-20'd,8526759234,'Worli','DP005'from dual
9  )
10 select * from names
11 */
12 select * from staff;
13

```

STAFF_ID	STAFF_NAME	CATEGORY_	DESIGNATION	DOB	CONTACT	ADDRESS	DEPT_NO
S0001	Sam	attender	Junior attender	01-JAN-90	8529759249	Borivali West	DP001
S0002	Matt	attender	Senior attender	02-FEB-91	8529759257	Borivali East	DP002
S0003	Ryan	Nurse	Head Nurse	03-JAN-83	8340613668	Vellore	DP003
S0004	Joe	technician	Senior Technician	10-FEB-84	8529659228	Borivali West	DP004
S0005	Nancy	Nurse	Staff Nurse	20-JAN-93	8526759234	Worli	DP005

Download CSV

5 rows selected.

#4. Patient table:

```
insert into Patient
with names as (
    select 'PT001','Sam',date'2000-11-01'd,'M',8529759249,'Thane West' from
dual union all
    select 'PT002','mary',date'2000-10-02'd,'F',8529759257,'Thane East' from
dual union all
    select 'PT003','Kevin',date'2001-04-03'd,'M',8340613668,'Chennai' from
dual union all
    select 'PT004','Jay',date'2002-06-01'd,'M',8529659228,'Borivali West'
from dual union all
    select 'PT005','Nancy',date'2003-05-01'd,'F',8526759234,'Worli' from dual
)
select * from names
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1  /*
2  insert into Patient
3  with names as (
4      select 'PT001','Sam',date'2000-11-01'd,'M',8529759249,'Thane West' from dual union all
5      select 'PT002','mary',date'2000-10-02'd,'F',8529759257,'Thane East' from dual union all
6      select 'PT003','Kevin',date'2001-04-03'd,'M',8340613668,'Chennai' from dual union all
7      select 'PT004','Jay',date'2002-06-01'd,'M',8529659228,'Borivali West' from dual union all
8      select 'PT005','Nancy',date'2003-05-01'd,'F',8526759234,'Worli' from dual
9  )
10 select * from names
11 */
12 select * from Patient;
13
```

PAT_ID	PAT_NAME	DOB	GENDER	CONTACT	ADDRESS
PT001	Sam	01-NOV-00	M	8529759249	Thane West
PT002	mary	02-OCT-00	F	8529759257	Thane East
PT003	Kevin	03-APR-01	M	8340613668	Chennai
PT004	Jay	01-JUN-02	M	8529659228	Borivali West
PT005	Nancy	01-MAY-03	F	8526759234	Worli

Download CSV

5 rows selected.

#5. In_Patient table:

```
insert into In_Patient
with names as (
    select 'PT001',date'2020-11-01'd,1010,to_timestamp('2020-11-
03:08:49:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-11-
03:09:49:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
    select 'PT002',date'2020-10-02'd,1012,to_timestamp('2020-10-
04:09:34:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-10-
04:11:34:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
    select 'PT003',date'2020-04-03'd,1013,to_timestamp('2020-04-
11:10:23:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-04-
11:12:23:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
    select 'PT004',date'2020-06-01'd,1014,to_timestamp('2020-06-
20:11:55:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-06-
20:13:55:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
    select 'PT005',date'2020-05-01'd,1015,to_timestamp('2020-05-
07:07:23:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-05-
07:09:23:01','YYYY-MM-DD:HH24:MI:SS') from dual )
select * from names
```

Live SQL Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```

1 /*
2 insert into In_Patient
3 with names as (
4   select 'PT001',date'2020-11-01'd,1010,to_timestamp('2020-11-03:08:49:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-11-03:09:49:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
5   select 'PT002',date'2020-10-02'd,1012,to_timestamp('2020-10-04:09:34:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-10-04:11:34:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
6   select 'PT003',date'2020-04-03'd,1013,to_timestamp('2020-04-11:10:23:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-04-11:12:23:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
7   select 'PT004',date'2020-06-01'd,1014,to_timestamp('2020-06-20:11:55:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-06-20:13:55:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
8   select 'PT005',date'2020-05-01'd,1015,to_timestamp('2020-05-07:07:23:01','YYYY-MM-DD:HH24:MI:SS'),to_timestamp('2020-05-07:09:23:01','YYYY-MM-DD:HH24:MI:SS') from dual )
9 select * from names
10 */
11 select * from In_Patient;
12
13

```

PAT_ID	DATE_OF_ADMISSION	BED_NO	START_TIME	END_TIME
PT001	01-NOV-20	1010	03-NOV-20 08.49.01.000000 AM	03-NOV-20 09.49.01.000000 AM
PT002	02-OCT-20	1012	04-OCT-20 09.34.01.000000 AM	04-OCT-20 11.34.01.000000 AM
PT003	03-APR-20	1013	11-APR-20 10.23.01.000000 AM	11-APR-20 12.23.01.000000 PM
PT004	01-JUN-20	1014	20-JUN-20 11.55.01.000000 AM	20-JUN-20 01.55.01.000000 PM
PT005	01-MAY-20	1015	07-MAY-20 07.23.01.000000 AM	07-MAY-20 09.23.01.000000 AM

Download CSV
5 rows selected.

#6. In_Patient_Prescription table:

```

insert into In_Patient_Prescription
with names as (
  select 'PT001','PR00001'from dual union all
  select 'PT002','PR00002'from dual union all
  select 'PT003','PR00003'from dual union all
  select 'PT004','PR00012'from dual union all
  select 'PT005','PR00005'from dual
)
select * from names

```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```

1 /*
2 insert into In_Patient_Prescription
3 with names as (
4   select 'PT001','PR00001'from dual union all
5   select 'PT002','PR00002'from dual union all
6   select 'PT003','PR00003'from dual union all
7   select 'PT004','PR00012'from dual union all
8   select 'PT005','PR00005'from dual
9 )
10 select * from names
11 */
12 select * from In_Patient_Prescription;
13

```

PAT_ID	PRES_ID
PT001	PR00001
PT002	PR00002
PT003	PR00003
PT004	PR00012
PT005	PR00005

Download CSV
5 rows selected.

#7. Appointment table:

```

insert into Appointment
with names as (
  select 'APP01','PT001','D0001','S0003',111,date'2020-11-
01'd,to_timestamp('2020-11-01:09:49:01','YYYY-MM-DD:HH24:MI:SS') from dual
union all

```

```

select 'APP02','PT002','D0002','S0005',111,date'2020-10-
22'd,to_timestamp('2020-10-22:11:30:01','YYYY-MM-DD:HH24:MI:SS') from dual
union all
select 'APP03','PT003','D0003','S0005',111,date'2020-04-
13'd,to_timestamp('2020-04-13:08:49:01','YYYY-MM-DD:HH24:MI:SS') from dual
union all
select 'APP04','PT004','D0004','S0003',112,date'2020-06-
23'd,to_timestamp('2020-06-23:12:34:01','YYYY-MM-DD:HH24:MI:SS') from dual
union all
select 'APP05','PT005','D0005','S0003',113,date'2020-05-
16'd,to_timestamp('2020-05-16:13:40:01','YYYY-MM-DD:HH24:MI:SS') from dual
)
select * from names

```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```

1  /*
2  insert into Appointment
3  with names as (
4      select 'APP01','PT001','D0001','S0003',111,date'2020-11-01'd,to_timestamp('2020-11-01:09:49:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
5      select 'APP02','PT002','D0002','S0005',111,date'2020-10-22'd,to_timestamp('2020-10-22:11:30:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
6      select 'APP03','PT003','D0003','S0005',111,date'2020-04-13'd,to_timestamp('2020-04-13:08:49:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
7      select 'APP04','PT004','D0004','S0003',112,date'2020-06-23'd,to_timestamp('2020-06-23:12:34:01','YYYY-MM-DD:HH24:MI:SS') from dual union all
8      select 'APP05','PT005','D0005','S0003',113,date'2020-05-16'd,to_timestamp('2020-05-16:13:40:01','YYYY-MM-DD:HH24:MI:SS') from dual
9  )
10 select * from names
11 */
12 select * from Appointment;
13

```

APP_ID	PAT_ID	DOC_ID	NURSE_ID	CONSULT_ROOM_NO	DATE_	TIME_
APP01	PT001	D0001	S0003	111	01-NOV-20	09.49.01.000000 AM
APP02	PT002	D0002	S0005	111	22-OCT-20	11.30.01.000000 AM
APP03	PT003	D0003	S0005	111	13-APR-20	08.49.01.000000 AM
APP04	PT004	D0004	S0003	112	23-JUN-20	12.34.01.000000 PM
APP05	PT005	D0005	S0003	113	16-MAY-20	01.40.01.000000 PM

Download CSV

5 rows selected.

#8. Prescription table:

```

insert into Prescription
with names as (
select 'PR00001','APP01',date'2020-11-01'd,to_timestamp('2020-11-
01:09:49:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual union all
select 'PR00002','APP02',date'2020-10-22'd,to_timestamp('2020-10-
22:11:30:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual union all
select 'PR00003','APP03',date'2020-04-13'd,to_timestamp('2020-04-
13:08:49:01','YYYY-MM-DD:HH24:MI:SS'),'blood test' from dual union all
select 'PR00012','APP04',date'2020-06-23'd,to_timestamp('2020-06-
23:12:34:01','YYYY-MM-DD:HH24:MI:SS'),'blood test' from dual union all
select 'PR00005','APP05',date'2020-05-16'd,to_timestamp('2020-05-
16:13:40:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual
)
select * from names

```

SQL Worksheet



Actions



```

1  /*
2  insert into Prescription
3  with names as (
4      select 'PR00001','APP01',date'2020-11-01'd,to_timestamp('2020-11-01:09:49:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual union all
5      select 'PR00002','APP02',date'2020-10-22'd,to_timestamp('2020-10-22:11:30:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual union all
6      select 'PR00003','APP03',date'2020-04-13'd,to_timestamp('2020-04-13:08:49:01','YYYY-MM-DD:HH24:MI:SS'),'blood test' from dual union all
7      select 'PR00012','APP04',date'2020-06-23'd,to_timestamp('2020-06-23:12:34:01','YYYY-MM-DD:HH24:MI:SS'),'blood test' from dual union all
8      select 'PR00005','APP05',date'2020-05-16'd,to_timestamp('2020-05-16:13:40:01','YYYY-MM-DD:HH24:MI:SS'),'urine test' from dual
9  )
10 select * from names
11 */
12 select * from Prescription;
13

```

PRES_ID	APP_ID	DATE_	TIME_	DIAGNOSIS_DETAIL
PR00001	APP01	01-NOV-20	09.49.01.000000 AM	urine test
PR00002	APP02	22-OCT-20	11.30.01.000000 AM	urine test
PR00003	APP03	13-APR-20	08.49.01.000000 AM	blood test
PR00012	APP04	23-JUN-20	12.34.01.000000 PM	blood test
PR00005	APP05	16-MAY-20	01.40.01.000000 PM	urine test

Download CSV

5 rows selected.

#9. Prescribed_Medicines table:

```

insert into Prescribed_medicines
with names as (
    select 'PR00001','crocin','10mg','Hamway' from dual union all
    select 'PR00002','Combiflame','15mg','Hamway' from dual union all
    select 'PR00003','SHA256','10ml','HDM' from dual union all
    select 'PR00012','SHA1','20ml','HDM' from dual union all
    select 'PR00005','SHA128','15ml','Hamway' from dual
)
select * from names

```

SQL Worksheet



Actions



```

1  /*
2  insert into Prescribed_medicines
3  with names as (
4      select 'PR00001','crocin','10mg','Hamway' from dual union all
5      select 'PR00002','Combiflame','15mg','Hamway' from dual union all
6      select 'PR00003','SHA256','10ml','HDM' from dual union all
7      select 'PR00012','SHA1','20ml','HDM' from dual union all
8      select 'PR00005','SHA128','15ml','Hamway' from dual
9  )
10 select * from names
11 */
12 select * from Prescribed_medicines;
13

```

PRES_ID	MEDICINE_NAME	DOSAGE	BRAND
PR00001	crocin	10mg	Hamway
PR00002	Combiflame	15mg	Hamway
PR00003	SHA256	10ml	HDM
PR00012	SHA1	20ml	HDM
PR00005	SHA128	15ml	Hamway

Download CSV

5 rows selected.

#10. Hospital_Bill table:

```

insert into Hospital_Bill
with names as (

```

```

    select '4072',date'2020-11-01'd,'PT001',150000,'cash',5 from dual union
all
    select '4073',date'2020-10-02'd,'PT002',200000,'credit card',10 from dual
union all
    select '4074',date'2020-04-03'd,'PT003',40000,'debit card',5 from dual
union all
    select '4075',date'2020-06-01'd,'PT004',3000,'cash',10 from dual union
all
    select '4078',date'2020-05-01'd,'PT005',5000,'debit card',15 from dual
)
select * from names

```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```

1  /*
2  insert into Hospital_Bill
3  with names as (
4      select '4072',date'2020-11-01'd,'PT001',150000,'cash',5 from dual union all
5      select '4073',date'2020-10-02'd,'PT002',200000,'credit card',10 from dual union all
6      select '4074',date'2020-04-03'd,'PT003',40000,'debit card',5 from dual union all
7      select '4075',date'2020-06-01'd,'PT004',3000,'cash',10 from dual union all
8      select '4078',date'2020-05-01'd,'PT005',5000,'debit card',15 from dual
9  )
10 select * from names
11 */
12 select * from Hospital_Bill;
13

```

INV_NO	INV_DATE	PAT_ID	BILL_AMOUNT	PAYMENT_TYPE	DISCOUNT
4072	01-NOV-20	PT001	150000	cash	5
4073	02-OCT-20	PT002	200000	credit card	10
4074	03-APR-20	PT003	40000	debit card	5
4075	01-JUN-20	PT004	3000	cash	10
4078	01-MAY-20	PT005	5000	debit card	15

Download CSV

5 rows selected.

#11. Lab_tests table:

```

insert into Lab_tests
with names as (
    select 'TI001','PT001',date'2020-11-01'd,to_timestamp('2020-11-03:08:49:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
    select 'TI002','PT002',date'2020-10-02'd,to_timestamp('2020-10-04:09:34:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
    select 'TI003','PT003',date'2020-04-03'd,to_timestamp('2020-04-11:10:23:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
    select 'TI004','PT004',date'2020-06-01'd,to_timestamp('2020-06-20:11:55:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
    select 'TI005','PT005',date'2020-05-01'd,to_timestamp('2020-05-07:07:23:01','YYYY-MM-DD:HH24:MI:SS')from dual
)
select * from names

```

SQL Worksheet

Clear

Find

Actions

Save

Run

```

1  /*
2  insert into Lab_tests
3  with names as (
4      select 'TI001','PT001',date'2020-11-01'd,to_timestamp('2020-11-03:08:49:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
5      select 'TI002','PT002',date'2020-10-02'd,to_timestamp('2020-10-04:09:34:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
6      select 'TI003','PT003',date'2020-04-03'd,to_timestamp('2020-04-11:10:23:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
7      select 'TI004','PT004',date'2020-06-01'd,to_timestamp('2020-06-20:11:55:01','YYYY-MM-DD:HH24:MI:SS')from dual union all
8      select 'TI005','PT005',date'2020-05-01'd,to_timestamp('2020-05-07:07:23:01','YYYY-MM-DD:HH24:MI:SS')from dual
9  )
10 select * from names
11 */
12 select * from Lab_tests;
13

```

TEST_ID	PAT_ID	DATE_	TIME_
TI001	PT001	01-NOV-20	03-NOV-20 08.49.01.000000 AM
TI002	PT002	02-OCT-20	04-OCT-20 09.34.01.000000 AM
TI003	PT003	03-APR-20	11-APR-20 10.23.01.000000 AM
TI004	PT004	01-JUN-20	20-JUN-20 11.55.01.000000 AM
TI005	PT005	01-MAY-20	07-MAY-20 07.23.01.000000 AM

Download CSV

5 rows selected.

#12. Test_results table:

```

insert into test_results
with names as (
    select 'TI001','TT001','Positive'from dual union all
    select 'TI002','TT002','Positive'from dual union all
    select 'TI003','TT003','Negative'from dual union all
    select 'TI004','TT004','Negative'from dual union all
    select 'TI005','TT005','Positive'from dual
)
select * from names

```

SQL Worksheet

Clear

Find

Actions

Save

Run

```

1  /*
2  insert into test_results
3  with names as (
4      select 'TI001','TT001','Positive'from dual union all
5      select 'TI002','TT002','Positive'from dual union all
6      select 'TI003','TT003','Negative'from dual union all
7      select 'TI004','TT004','Negative'from dual union all
8      select 'TI005','TT005','Positive'from dual
9  )
10 select * from names
11 */
12 select * from test_results;
13

```

TEST_ID	TT_ID	RESULT
TI001	TT001	Positive
TI002	TT002	Positive
TI003	TT003	Negative
TI004	TT004	Negative
TI005	TT005	Positive

Download CSV

5 rows selected.

#13. Test_types table:

```

insert into test_types
with names as (

```

```
select 'TT001','Blood test',26,66,'Blood sample','S0004'from dual union
all
select 'TT002','Blood test',23,65,'Blood sample','S0004'from dual union
all
select 'TT003','Urine test',30,74,'Urine sample','S0004'from dual union
all
select 'TT004','Urine test',11,23,'Urine sample','S0004'from dual union
all
select 'TT005','Urine test',15,24,'Urine sample','S0004'from dual
)
select * from names
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1  /*
2  insert into test_types
3  with names as (
4      select 'TT001','Blood test',26,66,'Blood sample','S0004'from dual union all
5      select 'TT002','Blood test',23,65,'Blood sample','S0004'from dual union all
6      select 'TT003','Urine test',30,74,'Urine sample','S0004'from dual union all
7      select 'TT004','Urine test',11,23,'Urine sample','S0004'from dual union all
8      select 'TT005','Urine test',15,24,'Urine sample','S0004'from dual
9  )
10 select * from names
11 */
12 select * from test_types;
13
```

TT_ID	DESCRIPTION	LOW_VALUE	HIGH_VALUE	TEST_METHOD	TECHNICIAN
TT001	Blood test	26	66	Blood sample	S0004
TT002	Blood test	23	65	Blood sample	S0004
TT003	Urine test	30	74	Urine sample	S0004
TT004	Urine test	11	23	Urine sample	S0004
TT005	Urine test	15	24	Urine sample	S0004

Download CSV
5 rows selected.

Question 3

Add some attributes with few tables and justify the additions.

Addition of Attributes:

```
alter table Doctor add year_of_passing number(10);
alter table Doctor add no_of_awards number(10);
alter table Staff add date_of_joining date;
alter table Patient add back_history varchar2(50);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Doctor add year_of_passing number(10);
2 alter table Doctor add no_of_awards number(10);
3 alter table Staff add date_of_joining date;
4 alter table Patient add back_history varchar2(50);
5
```

Table altered.

Table altered.

Table altered.

Table altered.

Justification:

- A doctor may be considered for a position like the HOD of a department based on his experience and the number of awards they have bagged throughout the course of their career.
- Similarly, for staff, their promotions may be decided on the basis of duration (in years) they have served in the hospital.
- A patient's previous medical records can help a doctor analyse the situation well and consequently better aid them.

Making foreign keys:

```
#1. alter table doctor
    add constraint Dept_No
    foreign key (Dept_No) references Department (Dept_No);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table doctor
2 add constraint Dept_No
3 foreign key (Dept_No) references Department (Dept_No);
4
```

Table altered.

```
#2. alter table department
    add constraint HOD
    foreign key (HOD) references Doctor (Doc_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table department
2 add constraint HOD
3 foreign key (HOD) references Doctor(Doc_ID);
4
```

Table altered.

```
#3. alter table staff
      add foreign key (Dept_no) references Department(Dept_no);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table staff
2 add foreign key (Dept_no) references Department(Dept_no);
3
```

Table altered.

```
#4. alter table In_patient
      add foreign key (Pat_ID) references Patient(Pat_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table In_patient
2 add foreign key (Pat_ID) references Patient(Pat_ID);
3
```

Table altered.

```
#5. alter table In_Patient_Prescription
      add foreign key (Pat_ID) references Patient(Pat_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table In_Patient_Prescription
2 add foreign key (Pat_ID) references Patient(Pat_ID);
3
```

Table altered.

```
#6. alter table Appointment
      add foreign key (Pat_ID) references Patient(Pat_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Appointment
2 add foreign key (Pat_ID) references Patient(Pat_ID);
3
```

Table altered.

```
#7. alter table Lab_tests
      add foreign key (Pat_ID) references Patient(Pat_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Lab_tests
2 add foreign key (Pat_ID) references Patient(Pat_ID);
3
```

Table altered.

```
#8. alter table Hospital_Bill
      add foreign key (Pat_ID) references Patient(Pat_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Hospital_Bill
2 add foreign key (Pat_ID) references Patient(Pat_ID);
3
```

Table altered.

```
#9. alter table Appointment
      add foreign key (Nurse_ID) references Staff(Staff_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Appointment
2 add foreign key (Nurse_ID) references Staff(Staff_ID);
3
```

Table altered.

```
#10. alter table Test_types
       add foreign key (Technician) references Staff(Staff_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Test_types
2 add foreign key (Technician) references Staff(Staff_ID);
3
```

Table altered.

```
#11. alter table Appointment
      add foreign key (Doc_ID) references Doctor(Doc_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Appointment
2 add foreign key (Doc_ID) references Doctor(Doc_ID);
3
```

Table altered.

```
#12. alter table In_Patient_Prescription
      add foreign key (Pres_ID) references Prescription(Pres_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table In_Patient_Prescription
2 add foreign key (Pres_ID) references Prescription(Pres_ID);
3
```

Table altered.

```
#13. alter table Prescribed_Medicines
      add foreign key (Pres_ID) references Prescription(Pres_ID);
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Prescribed_Medicines
2 add foreign key (Pres_ID) references Prescription(Pres_ID);
3
```

Table altered.

```
#14. alter table Test_Results
      add foreign key (Test_ID) references Lab_Tests(Test_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Test_Results
2 add foreign key (Test_ID) references Lab_Tests(Test_ID);
3
```

Table altered.

```
#15. alter table Prescription
      add foreign key (App_ID) references Appointment(App_ID);
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 alter table Prescription
2 add foreign key (App_ID) references Appointment(App_ID);
3
```

Table altered.

Question 4

Write DML Queries to retrieve all the asked information.

a) Find the details of all doctors.

```
select * from doctor
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from doctor
2
```

DOC_ID	DOC_NAME	GENDER	DOB	SPECIALIST	QUALIFICATION	CONTACT	ADDRESS	DEPT_NO	YEAR_OF_PASSING	NO_OF_AWARDS
D0001	Abhishek Sharma	M	01-JAN-90	Diabetes	MBBS	8529759229	Borivali West	DP001	-	-
D0002	Akshat Sharma	M	02-FEB-91	Ophthalmology	MD	8529759227	Borivali East	DP002	-	-
D0003	Rajeev Sharma	M	03-JAN-83	Cardiology	MBBS	8340613648	Vellore	DP003	-	-
D0004	Medha Sharma	F	10-FEB-84	General medicine	MD	8529759228	Borivali West	DP004	-	-
D0005	Arjun Singh	M	20-JAN-93	Neurology	MBBS	8526759229	Worli	DP005	-	-

Download CSV
5 rows selected.

b) Display all the hospital bill details.

```
select * from hospital_bill
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from hospital_bill
2
```

INV_NO	INV_DATE	PAT_ID	BILL_AMOUNT	PAYMENT_TYPE	DISCOUNT
4072	01-NOV-20	PT001	150000	cash	5
4073	02-OCT-20	PT002	200000	credit card	10
4074	03-APR-20	PT003	40000	debit card	5
4075	01-JUN-20	PT004	3000	cash	10
4078	01-MAY-20	PT005	5000	debit card	15

Download CSV
5 rows selected.

c) List the doctors who are specialized in 'Cardiology' and 'Neurology'.

```
select * from doctor where specialist = 'Cardiology' or specialist = 'Neurology'
```

Feedback Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from doctor where specialist = 'Cardiology' or specialist = 'Neurology'
2
```

DOC_ID	DOC_NAME	GENDER	DOB	SPECIALIST	QUALIFICATION	CONTACT	ADDRESS	DEPT_NO	YEAR_OF_PASSING	NO_OF_AWARDS
D0003	Rajeev Sharma	M	03-JAN-83	Cardiology	MBBS	8340613648	Vellore	DP003	-	-
D0005	Arjun Singh	M	20-JAN-93	Neurology	MBBS	8526759229	Worli	DP005	-	-

Download CSV
2 rows selected.

d) List all the appointments made for consultation room number 111, on '11-Jan-2020'.

```
select * from Appointment where Consult_Room_No = '111' and date_ = '11-JAN-2020';
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from Appointment where Consult_Room_No = '111' and date_ = '11-JAN-2020';
2
```

APP_ID	PAT_ID	DOC_ID	NURSE_ID	CONSULT_ROOM_NO	DATE_	TIME_
APP01	PT001	D0001	S0003	111	11-JAN-20	01-NOV-20 09.49.01.000000 AM

Download CSV

e) Display all the test types that have the values in the range of 25 and 75.

```
select * from test_types where low_value > 25 and high_value < 75;
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from test_types where low_value > 25 and high_value < 75;
2
```

TT_ID	DESCRIPTION	LOW_VALUE	HIGH_VALUE	TEST_METHOD	TECHNICIAN
TT001	Blood test	26	66	Blood sample	S0004
TT003	Urine test	30	74	Urine sample	S0004

Download CSV
2 rows selected.

f) Find the diagnosis details of the patient with prescription id 'PR00012'.

```
select * from prescription where Pres_ID = 'PR00012';
```

Feedback ? Help sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 select * from prescription where Pres_ID = 'PR00012';
2
```

PRES_ID	APP_ID	DATE_	TIME_	DIAGNOSIS_DETAIL
PR00012	APP04	23-JUN-20	23-JUN-20 12.34.01.000000 PM	blood test

Download CSV

g) Display the name of the patients whose gender is female or the contact number is 9878987890.

```
select * from patient where gender = 'F' or contact = 9878987890;
```

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 select * from patient where gender = 'F' or contact = 9878987890;
2
```

PAT_ID	PAT_NAME	DOB	GENDER	CONTACT	ADDRESS
PT001	Sam	01-NOV-00	M	9878987890	Thane West
PT002	Mary	02-OCT-00	F	8529759257	Thane East
PT005	Nancy	01-MAY-03	F	8526759234	World

Download CSV

3 rows selected.

h) Find the staff name and staff id who are not working in the department 'D102'.

```
select staff_id, staff_name from staff where dept_no = 'DP002';
```

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 select staff_id, staff_name from staff where dept_no = 'DP002';
2
```

STAFF_ID	STAFF_NAME
S0001	Sam
S0003	Ryan
S0004	Joe
S0005	Nancy

Download CSV

4 rows selected.

i) Find the patients who are admitted on '01-May-2020' in the bed 100.

```
select * from in_patient where Bed_no = 0100 and Date_of_admission = '01-May-2020'
```

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 select * from in_patient where Bed_no = 0100 and Date_of_admission = '01-May-2020'
2
```

PAT_ID	DATE_OF_ADMISSION	BED_NO	START_TIME	END_TIME
PT005	01-MAY-20	100	07-MAY-20 07.23.01.000000 AM	07-MAY-20 09.23.01.000000 AM

Download CSV

j) Delete the test results that are 'Positive'.

```
delete from test_results where Result = 'Positive';
```


SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 delete from test_results where Result = 'Positive';
2
3
```

3 row(s) deleted.

k) Increase the discount with 5% more for all the patients whose bill amount is greater than 100000.

```
update Hospital_bill Set discount = discount + 5 where Bill_amount > 100000;
select * from Hospital_bill;
```

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 Update Hospital_bill Set discount = discount + 5 where Bill_amount > 100000;
2 select * from Hospital_bill;
3
```

2 row(s) updated.

INV_NO	INV_DATE	PAT_ID	BILL_AMOUNT	PAYMENT_TYPE	DISCOUNT
4072	01-NOV-20	PT001	150000	cash	10
4073	02-OCT-20	PT002	200000	credit card	15
4074	03-APR-20	PT003	40000	debit card	5
4075	01-JUN-20	PT004	3000	cash	10
4078	01-MAY-20	PT005	5000	debit card	15

Download CSV
5 rows selected.

l) Change the HOD of cardiology department with doctor 'D0003'.

```
select * from department;
update department set HOD = 'D0003' where Dept_name = 'Cardiology';
select * from department;
```

Live SQL

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 select * from department;
2 update department set HOD = 'D0003' where Dept_name = 'Cardiology';
3 select * from department;
4
```

DEPT_NO	DEPT_NAME	ROOM_NO	FLOOR	HOD	ESTD_DATE
DP001	Cardiology	1001	1	D0001	02-JAN-10
DP002	Intensive Care Unit	1002	1	D0002	01-MAR-10
DP003	Neurology	1003	3	D0003	01-APR-13
DP004	Oncology	1004	4	D0004	11-JAN-12
DP005	Diabetes	1005	5	D0005	01-JAN-11

Download CSV
5 rows selected.

1 row(s) updated.

DEPT_NO	DEPT_NAME	ROOM_NO	FLOOR	HOD	ESTD_DATE
DP001	Cardiology	1001	1	D0003	02-JAN-10
DP002	Intensive Care Unit	1002	1	D0002	01-MAR-10
DP003	Neurology	1003	3	D0003	01-APR-13
DP004	Oncology	1004	4	D0004	11-JAN-12
DP005	Diabetes	1005	5	D0005	01-JAN-11

[Download CSV](#)

5 rows selected.

m) Delete the prescribed medicines record that have the brand name 'XYZ'.

```
select * from prescribed_medicines;
delete from prescribed_medicines where brand = 'HDM';
select * from prescribed_medicines;
```



[Feedback](#)

[Help](#)

[sharadindu.adhikari2019@vitstudent.ac.in](#) ▾

SQL Worksheet

[Clear](#)

[Find](#)

[Actions](#) ▾

[Save](#)

[Run](#) ▶

```
1 select * from prescribed_medicines;
2 delete from prescribed_medicines where brand = 'HDM';
3 select * from prescribed_medicines;
4
```

PRES_ID	MEDICINE_NAME	DOSAGE	BRAND
PR00001	crocine	10mg	Hamway
PR00002	Combiflame	15mg	Hamway
PR00003	SHA256	10ml	HDM
PR00012	SHA1	20ml	HDM
PR00005	SHA128	15ml	Hamway

[Download CSV](#)

5 rows selected.

2 row(s) deleted.


PRES_ID	MEDICINE_NAME	DOSAGE	BRAND
PR00001	crocine	10mg	Hamway
PR00002	Combiflame	15mg	Hamway
PR00005	SHA128	15ml	Hamway




[Download CSV](#)





3 rows selected.

n) Modify the low value and high value to 10 and 30 respectively for the clinical test 'urine'.

```
select * from test_types;
update test_types set low_value = 10 where Description = 'Urine test';
update test_types set high_value = 30 where Description = 'Urine test';
select * from test_types;
```


Live SQL

 Feedback
  Help
  sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet
 Clear
  Find
 Actions ▾
  Save
  Run

```

1 select * from test_types;
2 update test_types set low_value = 10 where Description = 'Urine test';
3 update test_types set high_value = 30 where Description = 'Urine test';
4 select * from test_types;
5 |

```

TT_ID	DESCRIPTION	LOW_VALUE	HIGH_VALUE	TEST_METHOD	TECHNICIAN
TT001	Blood test	26	66	Blood sample	S0004
TT002	Blood test	23	65	Blood sample	S0004
TT003	Urine test	30	74	Urine sample	S0004
TT004	Urine test	11	23	Urine sample	S0004
TT005	Urine test	15	24	Urine sample	S0004

Download CSV

5 rows selected.

3 row(s) updated.

3 row(s) updated.

TT_ID	DESCRIPTION	LOW_VALUE	HIGH_VALUE	TEST_METHOD	TECHNICIAN
TT001	Blood test	26	66	Blood sample	S0004
TT002	Blood test	23	65	Blood sample	S0004
TT003	Urine test	10	30	Urine sample	S0004
TT004	Urine test	10	30	Urine sample	S0004
TT005	Urine test	10	30	Urine sample	S0004

Download CSV

5 rows selected.

o) Update the contact number of all staffs who are in the category 'Nurse'.

```
select * from Staff;
update Staff set Contact = 987654321 where Category_ = 'Nurse';
select * from Staff;
```



Feedback

Help

sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```

1 select * from Staff;
2 update Staff set Contact = 987654321 where Category_ = 'Nurse';
3 select * from Staff;
4

```

STAFF_ID	STAFF_NAME	CATEGORY_	DESIGNATION	DOB	CONTACT	ADDRESS	DEPT_NO	DATE_OF_JOINING
S0001	Sam	attender	Junior attender	01-JAN-90	8529759249	Borivali West	DP001	-
S0002	Matt	attender	Senior attender	02-FEB-91	8529759257	Borivali East	DP002	-
S0003	Ryan	Nurse	Head Nurse	03-JAN-83	987654321	Vellore	DP003	-
S0004	Joe	technician	Senior Technician	10-FEB-84	8529659228	Borivali West	DP004	-
S0005	Nancy	Nurse	Staff Nurse	20-JAN-93	987654321	Worli	DP005	-

Download CSV

5 rows selected.

2 row(s) updated.

STAFF_ID	STAFF_NAME	CATEGORY_	DESIGNATION	DOB	CONTACT	ADDRESS	DEPT_NO	DATE_OF_JOINING
S0001	Sam	attender	Junior attender	01-JAN-90	8529759249	Borivali West	DP001	-
S0002	Matt	attender	Senior attender	02-FEB-91	8529759257	Borivali East	DP002	-
S0003	Ryan	Nurse	Head Nurse	03-JAN-83	987654321	Vellore	DP003	-
S0004	Joe	technician	Senior Technician	10-FEB-84	8529659228	Borivali West	DP004	-
S0005	Nancy	Nurse	Staff Nurse	20-JAN-93	987654321	Worli	DP005	-

Download CSV

5 rows selected.

p) Delete the staff records that have designation 'junior attender' or 'senior technician' and belongs to the department 'D190'.

```
select * from Staff; delete from Staff where (Designation = 'Junior attender'
or Designation = 'Senior technician') and Dept_No = 'DP001';
select * from Staff;
```



Live SQL

Feedback

Help

sharadindu.adhikari2019@vitstudent.ac.in

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 select * from Staff;
2 delete from Staff where (Designation = 'Junior attender' or Designation = 'Senior technician'
3 select * from Staff;
4
```

STAFF_ID	STAFF_NAME	CATEGORY_	DESIGNATION	DOB	CONTACT	ADDRESS	DEPT_NO	DATE_OF_JOINING
S0001	Sam	attender	Junior attender	01-JAN-90	8529759249	Borivali West	DP001	-
S0002	Matt	attender	Senior attender	02-FEB-91	8529759257	Borivali East	DP002	-
S0003	Ryan	Nurse	Head Nurse	03-JAN-83	987654321	Vellore	DP003	-
S0004	Joe	technician	Senior Technician	10-FEB-84	8529659228	Borivali West	DP004	-
S0005	Nancy	Nurse	Staff Nurse	20-JAN-93	987654321	Worli	DP005	-

Download CSV

5 rows selected.

1 row(s) deleted.

STAFF_ID	STAFF_NAME	CATEGORY_	DESIGNATION	DOB	CONTACT	ADDRESS	DEPT_NO	DATE_OF_JOINING
S0002	Matt	attender	Senior attender	02-FEB-91	8529759257	Borivali East	DP002	-
S0003	Ryan	Nurse	Head Nurse	03-JAN-83	987654321	Vellore	DP003	-
S0004	Joe	technician	Senior Technician	10-FEB-84	8529659228	Borivali West	DP004	-
S0005	Nancy	Nurse	Staff Nurse	20-JAN-93	987654321	Worli	DP005	-

Download CSV

4 rows selected.

END