International Islamic University Chittagong

SMART HEALTH CONSULTING PROJECT

Course Title: DBMS

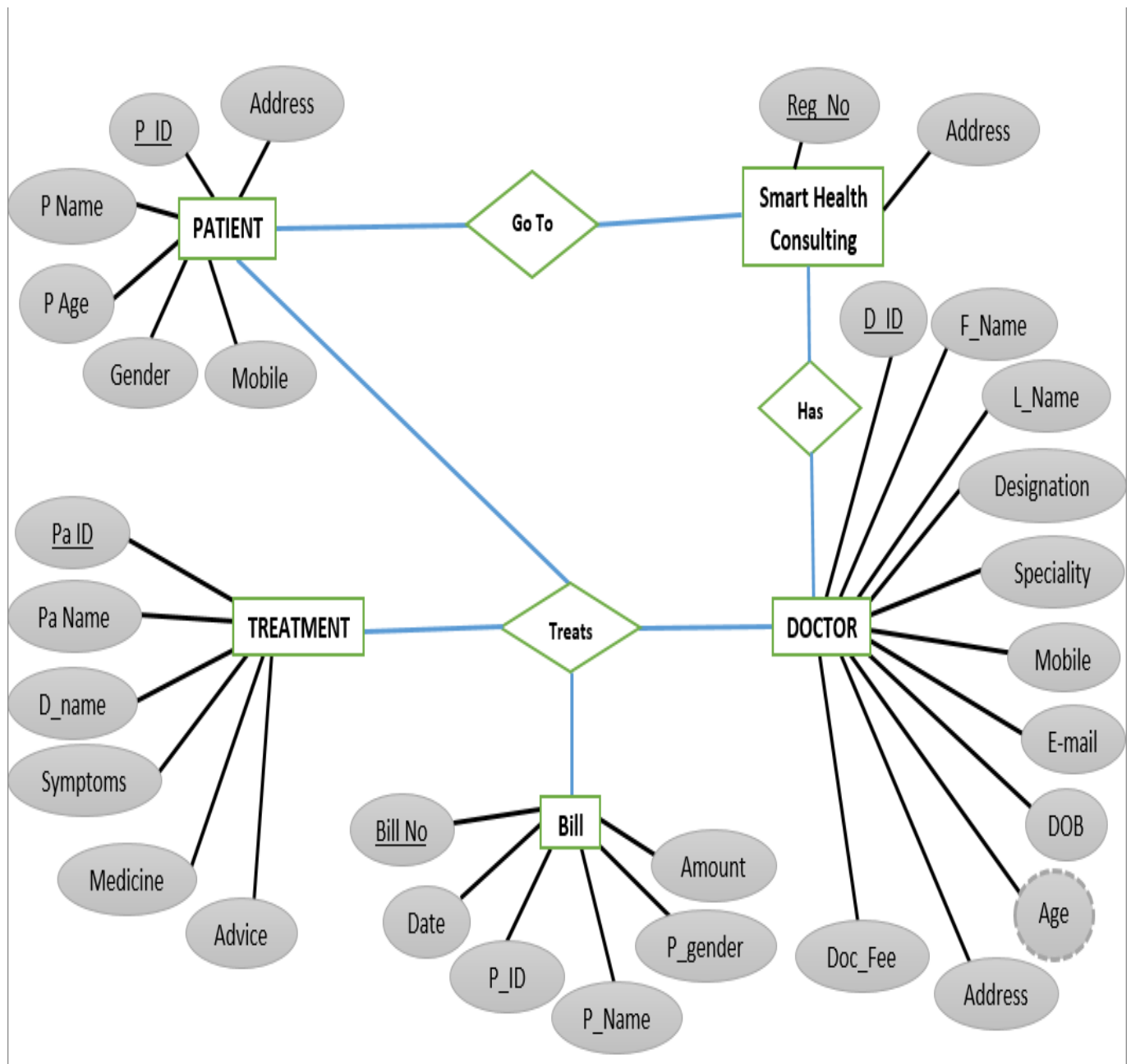**Course Code-2424**

Submitted To:	Submitted By:
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Date: 17/05/22

Project Title: **Smart Health Consulting**

Project View: Health Consulting is too much close to our daily life. For our physical, mental destruction we need to go to hospital and appoint a doctor for some advice, medicine etc. We can do it smartly by a Database Management System. This systematic way can reserve the all data of the patient and doctor.

ER Diagram:

Schema:

- ❖ **Smart Health Consulting** (*Reg_No*, Address)
- ❖ **Doctor_Info** (*D_ID*, F_Name, L_Name, Designation, Speciality, Mobile, E-mail, DOB, Age, Address, Doctor_Fee)
- ❖ **Patient _Info** (*P_ID*, P_Name, Age, P_Gender, Mobile, Address)
- ❖ **Treatment** (P_ID, P_Name, D_ID, Symptoms, Medicine, Advice)
- ❖ **BiLL & Tax** (*Bill_No*, Date_And_Time, P_ID, P_Name, P_Gender, Amount)

DDL Statement and Tables:

SMART HEALTH CONSULTING

```
CREATE TABLE  "SMART_HEALTH_CONSULTING"
    (    "REG_NUM" VARCHAR2(20) NOT NULL ENABLE,
         "ADDRESS" VARCHAR2(400),
          CONSTRAINT "SERVICE_PROVIDER_PK" PRIMARY KEY ("REG_NUM") ENABLE
    )
```

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	REG_NUM	ADDRESS
📄	HD201014	Probortok circle, Panchlaish, Chittagong
		row(s) 1 - 1 of 1

DOCTOR INFO

```
CREATE TABLE  "DOCTOR_INFO"
    (    "D_ID" VARCHAR2(15),
         "F_NAME" VARCHAR2(100),
         "L_NAME" VARCHAR2(100),
         "DESIGNATION" VARCHAR2(500),
         "SPECIALITY" VARCHAR2(500),
         "MOBILE" VARCHAR2(11),
         "E-MAIL" VARCHAR2(100),
         "DOB" DATE,
         "AGE" NUMBER,
         "ADDRESS" VARCHAR2(500),
         "DOCTOR_FEE" NUMBER,
          CONSTRAINT "DOCTOR_INFO_CON" PRIMARY KEY ("D_ID") ENABLE
    )
```

Query | Count Rows | Insert Row

EDIT	D_ID	F_NAME	L_NAME	DESIGNATION	SPECIALITY	MOBILE	E-MAIL	DOB	AGE	ADDRESS	DOCTOR_FEE
📝	14101	Dr. Ali Asgar	Chowdhury	MBBS, BCS (Health), FCPS (Radiotherapy)	Cancer & Tumor Specialist	01552674425	asgar101@gmail.com	10-OCT-75	47	Bohoddarhat	700
📝	14121	Dr. Junayed	Mahmood Khan	MBBS, BCS (Health), DDV	Skin, Allergy, STD, AIDS & Sexual Diseases Specialist	01590875690	jubayed121@gmail.com	10-NOV-79	43	Chawtteshwri Road	700
📝	14112	Dr. Kazi Mohammad	Abrar Hasan	MBBS, BCS (Health), FCPS (Medicine), Training (Hormone, Diabetes & Neuromedicine)	Medicine, Diabetes & Neuromedicine Specialist	1823231019	kaziabrar112@gmail.com	17-SEP-75	47	Muradpur	900
📝	14131	Dr. Ujjal	Barua Apu	MBBS, BCS (Health), FCPS (Urology)	Urology (Kidneys, Ureters, Prostate) Specialist & Surgeon	01989890972	ujjal131@gmail.com	12-MAR-72	51	Bohoddarhat	800
📝	14103	Dr. Syeda	Humaida Hasan	MBBS, BCS (Health), DCH, FCPS (Pediatrics)	Child Diseases Specialist	01734566543	syeda103@gmail.com	02-MAR-78	45	Lal Dighi	600
📝	14110	Prof. Dr. Md. Nurul	Huda	MBBS, MCPS (Medicine), MD (Neurology), FCPS (Medicine)	Kidney & Medicine Specialist	01390908687	nurulhuda110@gmail.com	26-JUL-72	50	Bohoddarhat	750
📝	14116	Prof. Dr. Md. Abdul Mottalib	Chowdhury	MBBS, MCPS, DPM	Mental Health, Drug Addiction Specialist & Psychiatrist	01965781450	muttalib116@gmail.com	04-NOV-64	59	Chandgawn Abashik	1000
📝	14108	Major Dr. Md. Rezaul	Karim	MBBS, MS (ENT), Diploma in Aviation Medicine (PAK), PhD (RU)	ENT Specialist & Surgeon	01990981232	rezaul108@gmail.com	08-AUG-78	44	GEC Circle	500
📝	14104	Dr. Md Nur	Uddin Tareq	MBBS, BCS (Health), FCPS (Medicine), MD (Cardiology)	Cardiology & Medicine Specialist	01623876543	nuruddin101@gmail.com	23-OCT-81	41	Muradpur	800
📝	14113	Dr. Shamima	Siddiqua	MBBS, FCPS (OBGYN), DME (UK)	Gynecology, Obstetrics Specialist & Laparoscopic Surgeon	01567801234	shamima113@gmail.com	23-FEB-76	47	Anderkilla	600

row(s) 1 - 10 of 10

PATIENT INFO

```
CREATE TABLE  "PATIENT_INFO"
   (    "P_ID" VARCHAR2(15),
        "P_NAME" VARCHAR2(50),
        "AGE" NUMBER,
        "P_GENDER" VARCHAR2(3),
        "MOBILE" VARCHAR2(11),
        "ADDRESS" VARCHAR2(500),
        CONSTRAINT "PATIENT_INFO_CON" PRIMARY KEY ("P_ID") ENABLE
   )
```

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	P_ID	P_NAME	AGE	P_GENDER	MOBILE	ADDRESS
📝	10210	Ariful Islam	71	M	01360705040	Jamalkhan
📝	10201	Shakib Shahnur	34	M	01322830321	Bondor
📝	10217	Raisa Islam	40	F	01578905432	Dewanhat
📝	10207	Mrs. Shamima	22	F	01856667080	2 no gate
📝	10203	Md. Shoykat Usman	49	M	01520209090	Pahartali
📝	10220	Habiba Tonni	33	F	01879698790	Newmarket
📝	10225	Jubayer Jeshan	15	M	01760203040	Bohoddarhat
📝	10205	Shams Farabi	12	M	01990900787	GEC Circle
📝	10212	Maimuna Jahan	48	F	01678901204	A K Khan
📝	10202	Md. Sagor	38	M	01710102020	Chawkbazar
						row(s) 1 - 10 of 10

TREATMENT

```
CREATE TABLE  "TREATMENT"
   (    "P_ID" VARCHAR2(15) NOT NULL ENABLE,
        "P_NAME" VARCHAR2(50) NOT NULL ENABLE,
        "D_ID" VARCHAR2(15) NOT NULL ENABLE,
        "SYMPTOMS" VARCHAR2(1000),
        "MEDICINE" VARCHAR2(1500),
        "ADVICE" VARCHAR2(1500),
         CONSTRAINT "TREATMENT_FK" FOREIGN KEY ("P_ID")
          REFERENCES  "PATIENT_INFO" ("P_ID") ENABLE,
         CONSTRAINT "TREATMENT_FK2" FOREIGN KEY ("D_ID")
          REFERENCES  "DOCTOR_INFO" ("D_ID") ENABLE
   )
```

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query Count Rows Insert Row

EDIT	P_ID	P_NAME	D_ID	SYMPTOMS	MEDICINE	ADVICE
📝	10203	Md. Shoykat Usman	14103	Bronchopneumonia	Levaquin	NSAIDs to help decrease swelling, pain, and fever
📝	10220	Habiba Tonni	14131	chronic kidney disease	-	Control diabetes and hypertension.
📝	10217	Raisa Islam	14112	Hypertension	metoprolol	Losing weight, Eating a diet rich in fruits and vegetables, Eating less salt, Eating less saturated fats, Increased physical activity
📝	10225	Jubayer Jeshan	14101	Carcinoma	vincristine	bed rest, no smoking.
📝	10210	Ariful Islam	14131	Erectile Dysfunction	Staxyn	Doing exercise to build up pelvic muscle more stronger
📝	10205	Shams Farabi	14116	Anxiety	Xanax	Benzodiazepines used to works in the brain's fear response system
📝	10207	Mrs. Shamima	14113	Pregnancy	-	visit after 4 weeks and maintain the routine.
📝	10212	Maimuna Jahan	14108	Migraine headaches	Imitrex	-
📝	10201	Shakib Shahnur	14121	Cystic acne, Pimples	benzoyl peroxide	Don't use Steroids. Azelaic acid cream- Apply to clean, dry skin twice per day
📝	10202	Md. Sagor	14104	Bronchial Asthma	prednisone	-

BILL & TAX

```
CREATE TABLE  "BILL_&_TAX"
   (    "BILL_NO" VARCHAR2(15),
        "DATE_AND_TIME" DATE,
        "P_ID" VARCHAR2(15),
        "P_NAME" VARCHAR2(50),
        "P_GENDER" VARCHAR2(3),
        "AMOUNT" NUMBER,
         CONSTRAINT "BILL_&_TAX_PK" PRIMARY KEY ("BILL_NO") ENABLE,
         CONSTRAINT "BILL_&_TAX_FK" FOREIGN KEY ("P_ID")
          REFERENCES  "PATIENT_INFO" ("P_ID") ENABLE
   )
```

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query Count Rows Insert Row

EDIT	BILL_NO	DATE_AND_TIME	P_ID	P_NAME	P_GENDER	AMOUNT
📝	B00010	27-DEC-21	10220	Habiba Tonni	F	2095
📝	B00002	11-JUN-21	10225	Jubayer Jeshan	M	235
📝	B00005	29-MAR-22	10203	Md. Shoykat Usman	M	800
📝	B00007	17-SEP-21	10205	Shams Farabi	M	340
📝	B00008	20-APR-22	10212	Maimuna Jahan	F	675
📝	B00003	30-APR-22	10207	Mrs. Shamima	F	790
📝	B00001	12-MAR-22	10210	Ariful Islam	M	544
📝	B00004	23-MAR-22	10201	Shakib Shahnur	M	1020
📝	B00009	23-MAR-22	10217	Raisa Islam	F	1620
📝	B00006	10-FEB-22	10202	Md. Sagor	M	600
						row(s) 1 - 10 of 10

Searching Data from Individual Table:

Searching Data from Individual Table:

Query-1: Find Doctor Information whose ID is 14131.

```
select *
from DOCTOR_INFO
where d_id=14131
```

Results Explain Describe Saved SQL History

D_ID	F_NAME	L_NAME	DESIGNATION	SPECIALITY	MOBILE	E-MAIL	DOB	AGE	ADDRESS	DOCTOR_FEE
14131	Dr. Ujjal	Barua Apu	MBBS, BCS (Health), FCPS (Urology)	Urology (Kidneys, Ureters, Prostate) Specialist & Surgeon	01989890972	ujjal131@gmail.com	12-MAR-72	51	Bohoddarhat	800

1 rows returned in 0.00 seconds   CSV Export

Query-2: Find the patient information whose name is "Ariful Islam"

```
select *
from Patient_info
where p_name='Ariful Islam'
```

Results   Explain   Describe   Saved SQL   History

P_ID	P_NAME	AGE	P_GENDER	MOBILE	ADDRESS
10210	Ariful Islam	71	M	01360705040	Jamalkhan

1 rows returned in 0.07 seconds   CSV Export

Query-3: Find the patient info where the patient's are less than 30 years.

```
select *
from patient_info
where age <30;
```

Results   Explain   Describe   Saved SQL   History

P_ID	P_NAME	AGE	P_GENDER	MOBILE	ADDRESS
10207	Mrs. Shamima	22	F	01856667080	2 no gate
10225	Jubayer Jeshan	15	M	01760203040	Bohoddarhat
10205	Shams Farabi	12	M	01990900787	GEC Circle

3 rows returned in 0.00 seconds   CSV Export

Query-4: Rename the column 'Age' as 'Doctor Age' from Doctor_Info

```
select F_Name ,age, age as "Doctor Age"
from Doctor_Info
```

Results   Explain   Describe   Saved SQL   History

F_NAME	AGE	Doctor Age
Dr. Ali Asgar	47	47
Dr. Junayed	43	43
Dr. Kazi Mohammad	47	47
Dr. Ujjal	51	51
Dr. Syeda	45	45
Prof. Dr. Md. Nurul	50	50
Prof. Dr. Md. Abdul Mottalib	59	59
Major Dr. Md. Rezaul	44	44
Dr. Md Nur	41	41
Dr. Shamima	47	47

10 rows returned in 0.04 seconds   CSV Export

Query-5: Find the full name of Doctor from Doctor_Info.

```
select F_Name ,L_Name, F_name|| L_name as "Doctor Name"
from Doctor_Info
```

Results   Explain   Describe   Saved SQL   History

F_NAME	L_NAME	Doctor Name
Dr. Ali Asgar	Chowdhury	Dr. Ali AsgarChowdhury
Dr. Junayed	Mahmood Khan	Dr. JunayedMahmood Khan
Dr. Kazi Mohammad	Abrar Hasan	Dr. Kazi Mohammad Abrar Hasan
Dr. Ujjal	Barua Apu	Dr. UjjalBarua Apu
Dr. Syeda	Humaida Hasan	Dr. Syeda Humaida Hasan
Prof. Dr. Md. Nurul	Huda	Prof. Dr. Md. Nurul Huda
Prof. Dr. Md. Abdul Mottalib	Chowdhury	Prof. Dr. Md. Abdul MottalibChowdhury
Major Dr. Md. Rezaul	Karim	Major Dr. Md. Rezaul Karim
Dr. Md Nur	Uddin Tareq	Dr. Md NurUddin Tareq
Dr. Shamima	Siddiqua	Dr. ShamimaSiddiqua

10 rows returned in 0.00 seconds   CSV Export

Query-6: Govt. increase the Tax 10% . Find the total amount of medicine.

```
select BILL_NO, P_ID, AMOUNT,(Amount+Amount*0.1) as "Total"
from BILL_AND_TAX
```

Results Explain Describe Saved SQL History

BILL_NO	P_ID	AMOUNT	Total
B00010	10220	2095	2304.5
B00002	10225	235	258.5
B00005	10203	800	880
B00007	10205	340	374
B00008	10212	675	742.5
B00003	10207	790	869
B00001	10210	544	598.4
B00004	10201	1020	1122
B00009	10217	1620	1782
B00006	10202	600	660

10 rows returned in 0.00 seconds   CSV Export

Query-7: Find the total Amount from Bill and Tax.

```
select SUM(Amount)
from BILL_AND_TAX
```

Results Explain Describe Saved SQL History

SUM(AMOUNT)
8719

Query-8: Show Doctor Id, Doctor name, DOB in Ascending order from Doctor_Info.

```
select D_ID, F_name ||' '|| L_name as "Name",  DOB
from Doctor_Info
order by DOB ASC;
```

Results Explain Describe Saved SQL History

D_ID	Name	DOB
14116	Prof. Dr. Md. Abdul Mottalib Chowdhury	04-NOV-64
14131	Dr. Ujjal Barua Apu	12-MAR-72
14110	Prof. Dr. Md. Nurul Huda	26-JUL-72
14112	Dr. Kazi Mohammad Abrar Hasan	17-SEP-75
14101	Dr. Ali Asgar Chowdhury	10-OCT-75
14113	Dr. Shamima Siddiqua	23-FEB-76
14103	Dr. Syeda Humaida Hasan	02-MAR-78
14108	Major Dr. Md. Rezaul Karim	08-AUG-78
14121	Dr. Junayed Mahmood Khan	10-NOV-79
14104	Dr. Md Nur Uddin Tareq	23-OCT-81

Query-9: Show the F_name, Designation and Doctor fee that the user specifies after a prompt from Doctor_Info.

```
select F_name ,  Designation, Doctor_Fee
from Doctor_Info
where doctor_fee=(:Input);
```

Results Explain Describe Saved SQL History

F_NAME	DESIGNATION	DOCTOR_FEE
Dr. Ujjal	MBBS, BCS (Health), FCPS (Urology)	800
Dr. Md Nur	MBBS, BCS (Health), FCPS (Medicine), MD (Cardiology)	800

2 rows returned in 0.01 seconds   CSV Export

Query-10: Show the all patient name in which the third letter is "i" from Patient_Info.

```
select P_Name
from Patient_Info
where P_Name LIKE '__i%';
```

Results Explain Describe Saved SQL History

P_NAME
Ariful Islam
Raisa Islam
Maimuna Jahan

3 rows returned in 0.01 seconds   CSV Export

Searching Data from Multiple Table:

Query-1: Show the all information about all patient's 'Treatment' and 'Bill And Tax'.

```
select *
from Treatment t  Join Bill_and_tax b
ON t.P_ID=b.P_ID;
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	D_ID	SYMPTOMS	MEDICINE	ADVICE	BILL_NO	DATE_AND_TIME	P_ID	P_NAME	P_GENDER	AMOUNT
10220	Habiba Tonni	14131	chronic kidney disease	-	Control diabetes and hypertension.	B00010	27-DEC-21	10220	Habiba Tonni	F	2095
10225	Jubayer Jeshan	14101	Carcinoma	vincristine	bed rest, no smoking.	B00002	11-JUN-21	10225	Jubayer Jeshan	M	235
10203	Md. Shoykat Usman	14103	Bronchopneumonia	Levaquin	NSAIDs to help decrease swelling, pain, and fever	B00005	29-MAR-22	10203	Md. Shoykat Usman	M	800
10205	Shams Farabi	14116	Anxiety	Xanax	Benzodiazepines used to works in the brain's fear response system	B00007	17-SEP-21	10205	Shams Farabi	M	340
10212	Maimuna Jahan	14108	Migraine headaches	Imitrex	-	B00008	20-APR-22	10212	Maimuna Jahan	F	675
10207	Mrs. Shamima	14113	Pregnancy	-	visit after 4 weeks and maintain the routine.	B00003	30-APR-22	10207	Mrs. Shamima	F	790
10210	Ariful Islam	14131	Erectile Dysfunction	Staxyn	Doing exercise to build up pelvic muscle more stronger	B00001	12-MAR-22	10210	Ariful Islam	M	544
10201	Shakib Shahnur	14121	Cystic acne, Pimples	benzoyl peroxide	Don't use Steroids. Azelaic acid cream- Apply to clean, dry skin twice per day	B00004	23-MAR-22	10201	Shakib Shahnur	M	1020
10217	Raisa Islam	14112	Hypertension	metoprolol	Losing weight, Eating a diet rich in fruits and vegetables, Eating less salt, Eating less saturated fats, Increased physical activity	B00009	23-MAR-22	10217	Raisa Islam	F	1620
10202	Md. Sagor	14104	Bronchial Asthma	prednisone	-	B00006	10-FEB-22	10202	Md. Sagor	M	600

Query-2: Show the P_ID, P_NAME, D_ID, BILL_NO, AMOUNT by using Natural Join.

```
select P_ID, P_Name, D_ID, BILL_NO, AMOUNT
from Treatment
Natural Join Bill_and_tax ;
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	D_ID	BILL_NO	AMOUNT
10220	Habiba Tonni	14131	B00010	2095
10225	Jubayer Jeshan	14101	B00002	235
10203	Md. Shoykat Usman	14103	B00005	800
10205	Shams Farabi	14116	B00007	340
10212	Maimuna Jahan	14108	B00008	675
10210	Ariful Islam	14131	B00001	544
10201	Shakib Shahnur	14121	B00004	1020
10217	Raisa Islam	14112	B00009	1620
10202	Md. Sagor	14104	B00006	600

9 rows returned in 0.00 seconds   CSV Export

Query-3: Show the P_ID, P_Name, D_ID, Doctor Name as Name, Doctor_Fee for all Patient.

```
Autocommit  Display 10        ✓
select P_ID, P_Name, D_ID, F_Name||' '||L_Name as Name, Doctor_Fee
from Treatment
JOIN Doctor_Info
USING (D_ID);
```

Results   Explain   Describe   Saved SQL   History

P_ID	P_NAME	D_ID	NAME	DOCTOR_FEE
10225	Jubayer Jeshan	14101	Dr. Ali Asgar Chowdhury	700
10201	Shakib Shahnur	14121	Dr. Junayed Mahmood Khan	700
10217	Raisa Islam	14112	Dr. Kazi Mohammad Abrar Hasan	900
10210	Ariful Islam	14131	Dr. Ujjal Barua Apu	800
10220	Habiba Tonni	14131	Dr. Ujjal Barua Apu	800
10203	Md. Shoykat Usman	14103	Dr. Syeda Humaida Hasan	600
10205	Shams Farabi	14116	Prof. Dr. Md. Abdul Mottalib Chowdhury	1000
10212	Maimuna Jahan	14108	Major Dr. Md. Rezaul Karim	500
10202	Md. Sagor	14104	Dr. Md Nur Uddin Tareq	800
10207	Mrs. Shamima	14113	Dr. Shamima Siddiqua	600

Query-4: Show D_ID, F_Name, DOB and the P_name of respective Doctor whose DOB is greater than input date.

```
Select d.D_ID, d.F_Name, d.DOB, t.P_Name
from Doctor_Info d JOIN Treatment t
ON (d.D_ID=t.D_ID)
where d.DOB>(:input);
```

Results   Explain   Describe   Saved SQL   History

D_ID	F_NAME	DOB	P_NAME
14103	Dr. Syeda	02-MAR-78	Md. Shoykat Usman
14112	Dr. Kazi Mohammad	17-SEP-75	Raisa Islam
14101	Dr. Ali Asgar	10-OCT-75	Jubayer Jeshan
14113	Dr. Shamima	23-FEB-76	Mrs. Shamima
14108	Major Dr. Md. Rezaul	08-AUG-78	Maimuna Jahan
14121	Dr. Junayed	10-NOV-79	Shakib Shahnur
14104	Dr. Md Nur	23-OCT-81	Md. Sagor

7 rows returned in 0.00 seconds   CSV Export

Query-5: Show the Patient Details and Tretment details of 'Ariful Islam'

```
Select *
from Patient_Info NATURAL JOIN Treatment
where P_Name='Ariful Islam';
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	AGE	P_GENDER	MOBILE	ADDRESS	D_ID	SYMPTOMS	MEDICINE	ADVICE
10210	Ariful Islam	71	M	01360705040	Jamalkhan	14131	Erectile Dysfunction	Staxyn	Doing exercise to build up pelvic muscle more stronger

1 rows returned in 0.05 seconds   CSV Export

QUERIES WITH PL/SQL:

Query-1: Show details about 'Dr. Md Nur' including D_ID, F_Name, Designation , Speciality.

```
DECLARE
DID Doctor_Info.D_ID%type;
F_N Doctor_Info.F_Name%type;
Desig Doctor_Info.Designation%type;
Spe Doctor_Info.Speciality%type;

BEGIN
Select  D_ID, F_Name, Designation, Speciality INTO DID, F_N, Desig, Spe
from Doctor_Info
where F_Name='Dr. Md Nur';

dbms_output.put_line('Doctor Details: ');
dbms_output.put_line('Doctor ID    :'||DID);
dbms_output.put_line('Doctor Name  :'||F_N);
dbms_output.put_line('Designation  :'||Desig);
dbms_output.put_line('Speciality   :'||Spe);
END;
```

Results Explain Describe Saved SQL History

```
Doctor Details:
Doctor ID    :14104
Doctor Name  :Dr. Md Nur
Designation  :MBBS, BCS (Health), FCPS (Medicine), MD (Cardiology)
Speciality   :Cardiology & Medicine Specialist

Statement processed.
```

Query-2: Show the Details of all Doctor including D_ID, Doctor Name, Designation , Speciality, Doctor_Fee.

```
DECLARE
D_record Doctor_Info%rowtype;
cursor D IS
Select *
from Doctor_Info;

BEGIN
Open D;
dbms_output.put_line('Details of All Doctor:   ');
dbms_output.put_line(' ');
LOOP
FETCH D INTO D_record;
EXIT When D%notfound;


dbms_output.put_line('Doctor ID     :'||D_record.D_ID);
dbms_output.put_line('Doctor Name   :'||D_record.F_Name);
dbms_output.put_line('Designation   :'||D_record.Designation);
dbms_output.put_line('Speciality    :'||D_record.Speciality);
dbms_output.put_line('Doctor Fee    :'||D_record.Doctor_Fee);
dbms_output.put_line('................................');
END LOOP;
CLOSE D;
END;
```

```
Details of All Doctor:

Doctor ID     :14101
Doctor Name   :Dr. Ali Asgar
Designation   :MBBS, BCS (Health), FCPS (Radiotherapy)
Speciality    :Cancer & Tumor Specialist
Doctor Fee    :700
...................................
Doctor ID     :14121
Doctor Name   :Dr. Junayed
Designation   :MBBS, BCS (Health), DDV
Speciality    :Skin, Allergy, STD, AIDS & Sexual Diseases Specialist
Doctor Fee    :700
...................................
Doctor ID     :14112
Doctor Name   :Dr. Kazi Mohammad
Designation   :MBBS, BCS (Health), FCPS (Medicine), Training (Hormone, Diabetes & Neuromedicine)
Speciality    :Medicine, Diabetes & Neuromedicine Specialist
Doctor Fee    :900
...................................
Doctor ID     :14131
Doctor Name   :Dr. Ujjal
Designation   :MBBS, BCS (Health), FCPS (Urology)
Speciality    :Urology (Kidneys, Ureters, Prostate) Specialist & Surgeon
Doctor Fee    :800
...................................
Doctor ID     :14103
Doctor Name   :Dr. Syeda
Designation   :MBBS, BCS (Health), DCH, FCPS (Pediatrics)
Speciality    :Child Diseases Specialist
Doctor Fee    :600
...................................
Doctor ID     :14110
Doctor Name   :Prof. Dr. Md. Nurul
Designation   :MBBS, MCPS (Medicine), MD (Neurology), FCPS (Medicine)
Speciality    :Kidney & Medicine Specialist
Doctor Fee    :750
...................................
Doctor ID     :14116
Doctor Name   :Prof. Dr. Md. Abdul Mottalib
Designation   :MBBS, MCPS, DPM
Speciality    :Mental Health, Drug Addiction Specialist & Psychiatrist
Doctor Fee    :1000
```

Query-3: Show the Details of Patient_Info.

```
DECLARE
p_record Patient_Info%rowtype;
cursor p IS
Select *
from Patient_Info;

BEGIN
Open p;
dbms_output.put_line('Details of Patient:  ');
dbms_output.put_line(' ');
LOOP
FETCH p INTO p_record;
EXIT When p%notfound;


dbms_output.put_line('Patient ID        :'||p_record.P_ID);
dbms_output.put_line('Patient Name      :'||p_record.P_Name);
dbms_output.put_line('Patient Age       :'||p_record.Age);
dbms_output.put_line('Patient Gender    :'||p_record.P_Gender);
dbms_output.put_line('Patient Mobile    :'||p_record.Mobile);
dbms_output.put_line('....................................');
END LOOP;
CLOSE p;
END;
```

```
Details of Patient:

Patient ID        :10210
Patient Name      :Ariful Islam
Patient Age       :71
Patient Gender    :M
Patient Mobile    :01360705040
....................................
Patient ID        :10201
Patient Name      :Shakib Shahnur
Patient Age       :34
Patient Gender    :M
Patient Mobile    :01322830321
....................................
Patient ID        :10217
Patient Name      :Raisa Islam
Patient Age       :40
Patient Gender    :F
Patient Mobile    :01578905432
....................................
Patient ID        :10207
Patient Name      :Mrs. Shamima
Patient Age       :22
Patient Gender    :F
Patient Mobile    :01856667080
....................................
Patient ID        :10203
Patient Name      :Md. Shoykat Usman
Patient Age       :49
Patient Gender    :M
Patient Mobile    :01520209090
....................................
Patient ID        :10220
Patient Name      :Habiba Tonni
Patient Age       :33
Patient Gender    :F
Patient Mobile    :01879698790
....................................
Patient ID        :10225
Patient Name      :Jubayer Jeshan
Patient Age       :15
Patient Gender    :M
Patient Mobile    :01760203040
....................................
```

Query-4: Show the Patient and Id who are buying more than 1000 taka.

```
CREATE OR REPLACE procedure maxamount(a IN Number, b IN varchar2, c IN varchar2)
as
BEGIN
IF a>1000 THEN
dbms_output.put_line(' ');
dbms_output.put_line('Patient ID: '||b||' Patient Name: '||c||' Amount: '||a);
END IF;
END;
```

Results   Explain   Describe   Saved SQL   History

Procedure created.

0.00 seconds

```
DECLARE
a number;
b varchar2(30);
c varchar2(30);
t_record Bill_And_Tax%rowtype;
cursor t IS
Select *
from Bill_And_Tax;
BEGIN
Open t;
dbms_output.put_line('Who are buying medicine more than 1000 taka: ');
LOOP
FETCH t INTO t_record;
EXIT When t%notfound;
a:=t_record.Amount;
b:=t_record.P_ID;
c:=t_record.P_Name;
maxamount(a,b,c);
END LOOP;
CLOSE t;
END;
```

Results   Explain   Describe   Saved SQL   History

Who are buying medicine more than 1000 taka:

Patient ID: 10220 Patient Name: Habiba Tonni Amount: 2095

Patient ID: 10201 Patient Name: Shakib Shahnur Amount: 1020

Patient ID: 10217 Patient Name: Raisa Islam Amount: 1620

Statement processed.

Query-5: Show the Doctor Name and Id who are more than 50 years.

```
CREATE OR REPLACE procedure maxage(a IN Number, b IN varchar2, c IN varchar2)
as
BEGIN
IF a>50 THEN
dbms_output.put_line(' ');
dbms_output.put_line('Doctor Name: '||b||' Doctor ID: '||c||' Age: '||a);
END IF;
END;
```

Results   Explain   Describe   Saved SQL   History

Procedure created.

0.00 seconds

☑ Autocommit   Display 10 ▾

```
DECLARE
a number;
b varchar2(30);
c varchar2(30);
t_record Doctor_Info%rowtype;
cursor t IS
Select *
from Doctor_Info;
BEGIN
Open t;
dbms_output.put_line('Who are more than 50 years: ');
LOOP
FETCH t INTO t_record;
EXIT When t%notfound;
a:=t_record.Age;
b:=t_record.F_Name;
c:=t_record.D_ID;
maxage(a,b,c);
END LOOP;
CLOSE t;
END;
```

Results   Explain   Describe   Saved SQL   History

Who are more than 50 years:

Doctor Name: Dr. Ujjal Doctor ID: 14131 Age: 51

Doctor Name: Prof. Dr. Md. Abdul Mottalib Doctor ID: 14116 Age: 59