

HOSPITAL DATABASE MANAGEMENT SYSTEM

PL/SQL COMMAND:

```
create table patient (  
  pat_id varchar2(10 CHAR),  
  pat_name varchar2(60 CHAR),  
  pat_gender varchar2(2 CHAR),  
  pat_address varchar2(100 CHAR),  
  pat_number number(11,0),  
  pat_doc_code varchar2(10 CHAR),  
  constraint pk_patient primary key (pat_id),  
  constraint uq_doc_code unique (pat_doc_code)  
);
```

```
create table patient_diagnosis(  
  Diag_ID varchar2(10 CHAR),  
  diag_details varchar2(200 CHAR),  
  diag_remarks varchar2(200 CHAR),  
  diag_date date,  
  pat_id varchar2(10 CHAR),  
  constraint pk_patient_diagnosis primary key (diag_id),  
  constraint fk_pat_id foreign key (pat_id)  
  references patient(pat_id)  
);
```

```
create table doctor(  
doc_code varchar2(10 CHAR),  
doc_name varchar2(60 CHAR),  
doc_gender varchar2(2 CHAR),  
doc_address varchar2(200 CHAR),  
doc_designation varchar2(30 CHAR),  
doc_number number(11,0),  
constraint pk_doctor primary key (doc_code),  
constraint fk_doc_code foreign key (doc_code)  
references patient(pat_doc_code)  
);
```

```
create table bill(  
bill_no integer,  
pat_id varchar2(10 CHAR),  
pat_name varchar2(60 CHAR),  
pat_gender varchar2(2 CHAR),  
pat_address varchar2(100 CHAR),  
doc_name varchar2(60 CHAR),  
amount NUMBER(19,9),  
constraint pk_bill primary key (bill_no),  
constraint fk_bill_pat_id foreign key (pat_id)  
references patient(pat_id)  
);
```

```
INSERT INTO PATIENT VALUES ('P001','Raghav Sharma','M','#33, Sec 22,  
Gurugram',1111111111,'D001');
```

```
INSERT INTO PATIENT VALUES ('P002','Shivam Kumar','M','#2789, Udhog Vihar P-2,  
Gurugram',2222222222,'D004');
```

```
INSERT INTO PATIENT VALUES ('P003','Kiran','F','#3672, Sec 37D,  
Chandigarh',3333333333,'D003');
```

```
INSERT INTO PATIENT VALUES ('P004','Akshay Chauchan','M','#4534, Sec 57C,  
Delhi',4444444444,'D005');
```

```
INSERT INTO PATIENT VALUES ('P005','Karan Chaudary','M','Tamil  
Nadu',5555555555,'D002');
```

```
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG001','Suffering from asthma','Need to use  
rescue inhalers',sysdate,'P001');
```

```
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG002','Suffering from heart  
diseases','Treatments vary widely and can include lifestyle changes, medication, surgery,  
stents, pacemakers and ablation.',sysdate,'P002');
```

```
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG003','Suffering from skin diseases','Use  
anti-fungal sprays/creams to treat the skin infection',sysdate,'P003');
```

```
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG004','Suffering from mouth diseases','Need  
to use pain relievers',sysdate,'P004');
```

```
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG005','Suffering from migrane','Avoid stress,  
improve sleep habit and have a balanced diet',sysdate,'P005');
```

```
INSERT INTO DOCTOR VALUES ('D001','Dr P R Goyal','M','H1/10, Hauz Khas, New Delhi,  
Delhi','Allergist',9810506571);
```

```
INSERT INTO DOCTOR VALUES ('D002','Dr Jagmeet Soin','M','94/4, GNH Hospital, Opposite  
Govt. Girls College, Near Sector 14, Gurugram, Haryana 122001','Cardiologist',8800188336);
```

```
INSERT INTO DOCTOR VALUES ('D003','Dr Priyanka Yadav','F','CLACS, GNH Hospital, MG  
Road, Opp. Govt Girls College, Anamika Enclave, Gurugram, Haryana  
122001','Dermatologist',7042795770);
```

```
INSERT INTO DOCTOR VALUES ('D004','Dr Kaushal Yadav','M','Sector 14, Gurugram,  
Haryana','Oral Surgeon',8800188336);
```

```
INSERT INTO DOCTOR VALUES ('D005','Dr. Praveen Gupta','M','Fortis Memorial Research  
Institute Sector 44, Opposite HUDA City Centre Metro Station, Gurugram, Haryana  
122002','Neurologist',9990766036);
```

```
CREATE SEQUENCE BILL_NO_SEQ
```

```
MINVALUE 1
```

```
MAXVALUE 100000
```

```
START WITH 1
```

```
INCREMENT BY 1;
```

```
CREATE OR REPLACE TRIGGER BILL_TRG
```

```
BEFORE INSERT ON BILL
```

```
FOR EACH ROW
```

```
DECLARE
```

```
DOC_ID VARCHAR(10 CHAR);
```

```
BEGIN
```

```
IF :NEW.BILL_NO IS NULL THEN
```

```
    SELECT BILL_NO_SEQ.NEXTVAL INTO :NEW.BILL_NO FROM DUAL;
```

```
END IF;
```

```
IF :NEW.PAT_NAME IS NULL THEN
```

```
    SELECT PAT_NAME INTO :NEW.PAT_NAME FROM PATIENT WHERE  
    PAT_ID=:NEW.PAT_ID;
```

```
END IF;
```

```
IF :NEW.PAT_GENDER IS NULL THEN
```

```
    SELECT PAT_GENDER INTO :NEW.PAT_GENDER FROM PATIENT WHERE  
    PAT_ID=:NEW.PAT_ID;
```

```
END IF;
```

```
IF :NEW.PAT_ADDRESS IS NULL THEN
```

```
    SELECT PAT_ADDRESS INTO :NEW.PAT_ADDRESS FROM PATIENT WHERE  
    PAT_ID=:NEW.PAT_ID;
```

```
END IF;
```

IF :NEW.DOC_NAME IS NULL THEN

SELECT PAT_DOC_CODE INTO DOC_ID FROM PATIENT WHERE PAT_ID=:NEW.PAT_ID;

SELECT DOC_NAME INTO :NEW.DOC_NAME FROM DOCTOR WHERE DOC_CODE =
DOC_ID;

END IF;

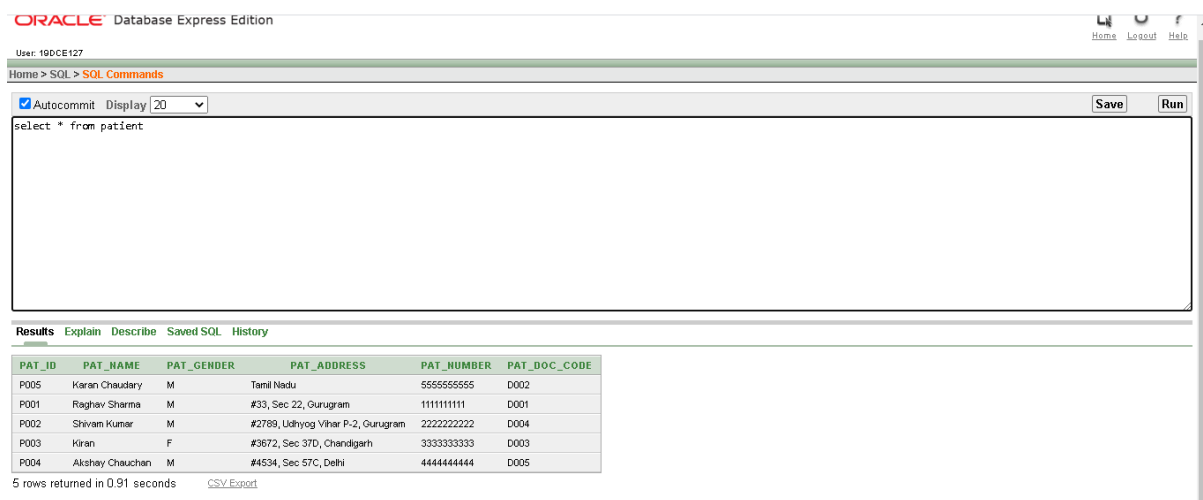
END;

INSERT INTO BILL (PAT_ID,AMOUNT) values ('P001',3000.4);

INSERT INTO BILL (PAT_ID,PAT_NAME,AMOUNT) values ('P002','Shivam Kumar',50000.5);

select * from bill

OUTPUT:



The screenshot shows the Oracle Database Express Edition web interface. At the top, it says 'ORACLE Database Express Edition' and 'User: 19DCE127'. Below that, there's a navigation bar with 'Home', 'Logout', and 'Help'. The main area has a 'SQL Commands' tab selected. Below the tab, there's a 'Save' button and a 'Run' button. The SQL command entered is 'select * from patient'. Below the command, there's a 'Results' tab selected, showing a table with 6 columns: PAT_ID, PAT_NAME, PAT_GENDER, PAT_ADDRESS, PAT_NUMBER, and PAT_DOC_CODE. The table contains 5 rows of data. Below the table, it says '5 rows returned in 0.91 seconds' and there's a 'CSV Export' link.

PAT_ID	PAT_NAME	PAT_GENDER	PAT_ADDRESS	PAT_NUMBER	PAT_DOC_CODE
P005	Karan Chaudary	M	Tamil Nadu	5555555555	D002
P001	Raghav Sharma	M	#33, Sec 22, Gurugram	1111111111	D001
P002	Shivam Kumar	M	#2789, Udhayog Vihar P-2, Gurugram	2222222222	D004
P003	Kiran	F	#3672, Sec 37D, Chandigarh	3333333333	D003
P004	Akshay Chauchan	M	#4534, Sec 57C, Delhi	4444444444	D005

5 rows returned in 0.91 seconds [CSV Export](#)

ORACLE Database Express Edition

User: 19DCE127

Home > SQL > SQL Commands

Autocommit Display 20 Save Run

```

select * from patient
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG001','Suffering from asthma','Need to use rescue inhalers',sysdate,'P001');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG002','Suffering from heart diseases','Treatments vary widely and can include lifestyle changes, medication, surgery, stents, pacemakers and ablation.',sysdate,'P002');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG003','Suffering from skin diseases','Use anti-fungal sprays/creams to treat the skin infection',sysdate,'P003');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG004','Suffering from mouth diseases','Need to use pain relievers',sysdate,'P004');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG005','Suffering from migraine','Avoid stress, improve sleep habit and have a balanced diet',sysdate,'P005');
select * from patient_diagnosis

```

Results Explain Describe Saved SQL History

DIAG_ID	DIAG_DETAILS	DIAG_REMARKS	DIAG_DATE	PAT_ID
DIAG001	Suffering from asthma	Need to use rescue inhalers	14-APR-21	P001
DIAG002	Suffering from heart diseases	Treatments vary widely and can include lifestyle changes, medication, surgery, stents, pacemakers and ablation.	14-APR-21	P002
DIAG003	Suffering from skin diseases	Use anti-fungal sprays/creams to treat the skin infection	14-APR-21	P003
DIAG004	Suffering from mouth diseases	Need to use pain relievers	14-APR-21	P004
DIAG005	Suffering from migraine	Avoid stress, improve sleep habit and have a balanced diet	14-APR-21	P005

5 rows returned in 0.03 seconds CSV Export

ORACLE Database Express Edition

User: 19DCE127

Home > SQL > SQL Commands

Autocommit Display 20 Save Run

```

--Insertion, sysdate, P002);
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG003','Suffering from skin diseases','Use anti-fungal sprays/creams to treat the skin infection',sysdate,'P003');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG004','Suffering from mouth diseases','Need to use pain relievers',sysdate,'P004');
INSERT INTO PATIENT_DIAGNOSIS VALUES ('DIAG005','Suffering from migraine','Avoid stress, improve sleep habit and have a balanced diet',sysdate,'P005');
select * from patient_diagnosis

INSERT INTO DOCTOR VALUES ('D001','Dr P R Goyal','N','H1/10, Hauz Khas, New Delhi, Delhi','Allergist',9810506571);
INSERT INTO DOCTOR VALUES ('D002','Dr Jagmeet Soin','M','94/4, GNH Hospital, Opposite Govt. Girls College, Near Sector 14, Gurugram, Haryana 122001','Cardiologist',8800188336);
INSERT INTO DOCTOR VALUES ('D003','Dr Priyanka Yadav','F','CLACS, GNH Hospital, MG Road, Opp. Govt Girls College, Anamika Enclave, Gurugram, Haryana 122001','Dermatologist',7042795770);
INSERT INTO DOCTOR VALUES ('D004','Dr Kaushal Yadav','N','Sector 14, Gurugram, Haryana','Oral Surgeon',8800188336);
INSERT INTO DOCTOR VALUES ('D005','Dr. Praveen Gupta','N','Fortis Memorial Research Institute Sector 44, Opposite HUDA City Centre Metro Station, Gurugram, Haryana 122002','Neurologist',9990766036);
select * from doctor;

```

Results Explain Describe Saved SQL History

DOC_CODE	DOC_NAME	DOC_GENDER	DOC_ADDRESS	DOC_DESIGNATION	DOC_NUMBER
D005	Dr. Praveen Gupta	M	Fortis Memorial Research Institute Sector 44, Opposite HUDA City Centre Metro Station, Gurugram, Haryana 122002	Neurologist	9990766036
D001	Dr P R Goyal	M	H1/10, Hauz Khas, New Delhi, Delhi	Allergist	9810506571
D002	Dr Jagmeet Soin	M	94/4, GNH Hospital, Opposite Govt. Girls College, Near Sector 14, Gurugram, Haryana 122001	Cardiologist	8800188336
D003	Dr Priyanka Yadav	F	CLACS, GNH Hospital, MG Road, Opp. Govt Girls College, Anamika Enclave, Gurugram, Haryana 122001	Dermatologist	7042795770
D004	Dr Kaushal Yadav	M	Sector 14, Gurugram, Haryana	Oral Surgeon	8800188336

5 rows returned in 0.03 seconds CSV Export

ORACLE Database Express Edition

User: 19DCE127

Home > SQL > SQL Commands

Autocommit Display 20 Save Run

```

select * from bill;
INSERT INTO BILL (PAT_ID,AMOUNT) values ('P001',3000.4);

```

Results Explain Describe Saved SQL History

BILL_NO	PAT_ID	PAT_NAME	PAT_GENDER	PAT_ADDRESS	DOC_NAME	AMOUNT
1	P001	Raghav Sharma	M	#33, Sec 22, Gurugram	Dr P R Goyal	3000.4

1 rows returned in 0.02 seconds CSV Export

ORACLE Database Express Edition

User: 19DCE127

Home > SQL > SQL Commands

Autocommit Display 20 Save Run

```

select * from bill;
INSERT INTO BILL (PAT_ID,AMOUNT) values ('P001',3000.4);
INSERT INTO BILL (PAT_ID,PAT_NAME,AMOUNT) values ('P002','Shivam Kumar',50000.5);

```

Results Explain Describe Saved SQL History

BILL_NO	PAT_ID	PAT_NAME	PAT_GENDER	PAT_ADDRESS	DOC_NAME	AMOUNT
1	P001	Raghav Sharma	M	#33, Sec 22, Gurugram	Dr P R Goyal	3000.4
2	P002	Shivam Kumar	M	#2789, Udhayog Vihar P-2, Gurugram	Dr Kaushal Yadav	50000.5

2 rows returned in 0.00 seconds [CSV Export](#)

ER diagram:

