HOSPITAL MANAGEMENT SYSTEM

In this phase we will create tables based on the design done in the first phase using SQL queries and will write select queries to retrieve information from database based on various criteria.

TABLE DEPARTMENT:

Results Explain Describe Saved SQL History

DEPT_ID	DEPT_NAME	HOD_ID
DEP-01	CARDIO	DOC-03
DEP-02	ORTHO	DOC-09
DEP-03	NEURO	DOC-05
DEP-04	DERMA	DOC-04
DEP-05	DENTAL	DOC-02

5 rows returned in 0.02 seconds   CSV Export

TABLE DOCTOR:

Results Explain Describe Saved SQL History

DOCTOR_ID	DEPT_ID	DOCTOR_NAME	SPECIALIZATION	DESIGNATION	QUALIFICATION	CONTACT_NO	ADDRESS
DOC-01	DEP-01	SADAF	CARDIOLOGIST	SR. CONSULTANT	MD	919999999999	NEW DELHI
DOC-02	DEP-05	MARIA	DENTAL	SR. CONSULTANT	MDS	919999999990	NEW DELHI
DOC-03	DEP-01	ALPESH	CARDIOLOGIST	SR. CONSULTANT	MD	919999999991	NEW DELHI
DOC-04	DEP-04	FAIZY	DERMA	SR. CONSULTANT	MD	919999999992	NEW DELHI
DOC-05	DEP-03	ANKITA	NEURO	SR. CONSULTANT	MD	919999999993	NEW DELHI
DOC-06	DEP-01	KAVITA	CARDIOLOGIST	CONSULTANT	MD	919999999994	NEW DELHI
DOC-07	DEP-05	MONIZA	DENTAL	CONSULTANT	MD	919999999995	NEW DELHI
DOC-08	DEP-02	KHANAK	ORTHO	CONSULTANT	MD	919999999996	NEW DELHI
DOC-09	DEP-02	TEENA	ORTHO	SR. CONSULTANT	MD	919999999997	NEW DELHI

9 rows returned in 0.01 seconds   CSV Export

TABLE NURSE:

Results Explain Describe Saved SQL History

NURSE_ID	DEPT_ID	NURSE_NAME	DESIGNATION	QUALIFICATION	CONTACT_NO	ADDRESS
NS-01	DEP-01	RINA	TRAINEE	BPHARMA	01122222222	NEW DELHI
NS-02	DEP-02	SEEMA	SR. T	MPHARMA	01122222224	NEW DELHI
NS-03	DEP-03	MAMTA	SR. T	MPHARMA	01122222225	NEW DELHI
NS-04	DEP-04	PURVA	TRAINEE	BPHARMA	01122222226	NEW DELHI
NS-05	DEP-05	RAMA	SR. T	MPHARMA	01122222227	NEW DELHI

5 rows returned in 0.00 seconds   CSV Export

TABLE WARD:

Results Explain Describe Saved SQL History

WARD_ID	DEPT_ID	WARD_NAME	CAPACITY
WD-01	DEP-01	ECONOMY	25
WD-02	DEP-02	ECONOMY	35
WD-03	DEP-03	ECONOMY	20
WD-04	DEP-04	ECONOMY	45
WD-05	DEP-05	ECONOMY	15
WD-06	DEP-01	ECONOMY	45

6 rows returned in 0.04 seconds   CSV Export

TABLE PATIENT:

Results Explain Describe Saved SQL History

PATIENT_ID	WARD_ID	PATIENT_NAME	SEX	AGE	BED_NO	DISEASE	ADMIT_DATE	DISCHARGE_DATE	ADDRESS	CONTACT_NO
PT-1	WD-01	KISHORE	M	57	1	DISEASE 1	12/02/2009	15/02/2009	NEW DELHI	1121111111
PT-2	WD-02	KAMAL	M	49	1	DISEASE 2	13/02/2009	18/02/2009	NEW DELHI	1121111112
PT-3	WD-03	LITIKA	F	25	1	DISEASE 3	12/02/2009	17/02/2009	NEW DELHI	01121111113
PT-4	WD-04	KIRAN	F	37	1	DISEASE 4	14/02/2009	19/02/2009	NEW DELHI	01121111114
PT-5	WD-05	KAMALA	F	77	1	DISEASE 5	12/02/2009	17/02/2009	NEW DELHI	01121111115
PT-6	WD-06	AMIT	M	30	1	DISEASE 6	17/02/2009	22/02/2009	NEW DELHI	01121111116
PT-7	WD-01	RAJ	M	27	1	DISEASE 7	22/02/2009	28/02/2009	NEW DELHI	01121111117
PT-8	WD-01	MANOJJ	M	55	3	DISEASE 8	28/02/2009	13/02/2009	NEW DELHI	01121111118
PT-9	WD-02	LALIT	M	37	2	DISEASE 9	23/02/2009	27/02/2009	NEW DELHI	01121111119
PT-10	WD-03	KALPESH	M	27	2	DISEASE 10	20/02/2009	24/02/2009	NEW DELHI	01121111110

10 rows returned in 0.02 seconds   CSV Export

TABLE TEST:

Results   Explain   Describe   Saved SQL   History

TEST_ID	TEST_NAME
TS-1	TEST1
TS-2	TEST2
TS-3	TEST3
TS-4	TEST4

4 rows returned in 0.01 seconds   CSV Export

TABLE TREATS:

Results   Explain   Describe   Saved SQL   History

DOCTOR_ID	PATIENT_ID	CHECKUP_DATE
DOC-01	PT-1	12/02/2009
DOC-02	PT-2	13/02/2009
DOC-03	PT-3	14/02/2009
DOC-04	PT-4	15/02/2009
DOC-05	PT-5	15/02/2009
DOC-06	PT-6	16/02/2009
DOC-01	PT-9	12/02/2009

7 rows returned in 0.02 seconds   CSV Export

TABLE CARES:

Results   Explain   Describe   Saved SQL   History

NURSE_ID	PATIENT_ID
NS-01	PT-1
NS-01	PT-6
NS-02	PT-2
NS-02	PT-7
NS-03	PT-3
NS-04	PT-4
NS-05	PT-5

7 rows returned in 0.01 seconds   CSV Export

TABLE UNDERGOES:

Results   Explain   Describe   Saved SQL   History

TEST_ID	PATIENT_ID	TEST_DATE	TEST_RESULT
TS-1	PT-1	12/02/2009	RESULT 1
TS-2	PT-2	13/02/2009	RESULT 2
TS-3	PT-3	14/02/2009	RESULT 3
TS-4	PT-4	15/02/2009	RESULT 4
TS-1	PT-5	16/02/2009	RESULT 5
TS-2	PT-6	17/02/2009	RESULT 6
TS-3	PT-7	18/02/2009	RESULT 7
TS-2	PT-1	12/02/2009	RESULT 8

8 rows returned in 0.00 seconds   CSV Export

TABLE DOCTOR_TEST:

Results   Explain   Describe   Saved SQL   History

DEPT_ID	CONTACT_NO
DEP-01	0112333333
DEP-01	0112333334
DEP-02	0112333335
DEP-03	0112333336
DEP-03	0112333337
DEP-04	0112333338
DEP-05	0112333339
DEP-05	0112333340

8 rows returned in 0.00 seconds   CSV Export

QUERIES:

Q1.   LIST ALL THE INFORMATION ABOUT DOCTORS OF CARDIO DPARTMENT.

SELECT DOCTOR_ID, DOCTOR_NAME, SPECIALIZATION, DESIGNATION, QUALIFICATION,
CONTACT_NO, ADDRESS
FROM DEPARTMENT DP, DOCTOR DR
WHERE DP.DEPT_ID=DR.DEPT_ID AND DEPT_NAME='CARDIO'

Results Explain Describe Saved SQL History

DOCTOR_ID	DOCTOR_NAME	SPECIALIZATION	DESIGNATION	QUALIFICATION	CONTACT_NO	ADDRESS
DOC-01	SADAF	CARDIOLOGIST	SR. CONSULTANT	MD	919999999999	NEW DELHI
DOC-03	ALPESH	CARDIOLOGIST	SR. CONSULTANT	MD	919999999991	NEW DELHI
DOC-06	KAVITA	CARDIOLOGIST	CONSULTANT	MD	919999999994	NEW DELHI

3 rows returned in 0.04 seconds   CSV Export
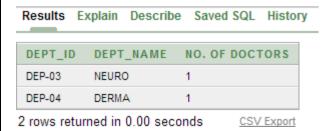
Q2. FIND DETAILS OF HOD OF DENTAL DEPARTMENT.

SELECT DOCTOR_ID, DOCTOR_NAME, SPECIALIZATION, DESIGNATION, QUALIFICATION,
CONTACT_NO, ADDRESS
FROM DEPARTMENT DP, DOCTO DR
WHERE DP.HOD_ID=DR.DOCTOR_ID AND DEPT_NAME='DENTAL'

Results Explain Describe Saved SQL History

DOCTOR_ID	DOCTOR_NAME	SPECIALIZATION	DESIGNATION	QUALIFICATION	CONTACT_NO	ADDRESS
DOC-02	MARIA	DENTAL	SR. CONSULTANT	MDS	919999999990	NEW DELHI

1 rows returned in 0.00 seconds   CSV Export

Q3. LIST ALL THE DEPARTMENTS HAVING LESS THAN 2 DOCTORS.

SELECT DR.DEPT_ID, DEPT_NAME, COUNT(DOCTOR_ID) "NO. OF DOCTORS"
FROM DOCTOR DR, DEPARTMENT DP
WHERE DR.DEPT_ID=DP.DEPT_ID
GROUP BY DR.DEPT_ID, DEPT_NAME
HAVING COUNT(DOCTOR_ID)<2

| Results | Explain | Describe | Saved SQL | History |

DEPT_ID	DEPT_NAME	NO. OF DOCTORS
DEP-03	NEURO	1
DEP-04	DERMA	1

2 rows returned in 0.00 seconds   CSV Export

Q4. FIND THE WARD(S) WITH MAXIMUM CAPACITY.

SELECT WARD_ID, WARD_NAME, CAPACITY
FROM WARD
WHERE CAPACITY>= ALL(SELECT CAPACITY FROM WARD)

| Results | Explain | Describe | Saved SQL | History |

WARD_NAME	CAPACITY
ECONOMY	45
ECONOMY	45

2 rows returned in 0.00 seconds   CSV Export

Q5. LIST ALL THE PATIENTS WHO ARE TREATED BY THE DOCTOR WITH DOCTOR _ID AS 'DOC_01'.

SELECT P.PATIENT_ID, P.PATIENT_NAME, P.AGE, P.ADMIT_DATE, P.DISCHARGE_DATE
FROM DOCTOR D, TREATS T, PATIENT P
WHERE D.DOCTOR_ID=T.DOCTOR_ID AND T.PATIENT_ID=P.PATIENT_ID
AND D.DOCTOR_ID='DOC-01'

| Results | Explain | Describe | Saved SQL | History |

PATIENT_ID	PATIENT_NAME	AGE	ADMIT_DATE	DISCHARGE_DATE
PT-1	KISHORE	57	12/02/2009	15/02/2009
PT-9	LALIT	37	23/02/2009	27/02/2009

2 rows returned in 0.00 seconds   CSV Export

Q6. FIND ALL THE DETAILS OF THE PATIENTS WHOSE NAME STARTS FROM K AND ARE OF 5 WORDS.

SELECT *
FROM PATIENT
WHERE PATIENT_NAME LIKE 'K____'

Results	Explain	Describe	Saved SQL	History						

PATIENT_ID	WARD_ID	PATIENT_NAME	SEX	AGE	BED_NO	DISEASE	ADMIT_DATE	DISCHARGE_DATE	ADDRESS	CONTACT_NO
PT-2	WD-02	KAMAL	M	49	1	DISEASE 2	13/02/2009	18/02/2009	NEW DELHI	1121111112
PT-4	WD-04	KIRAN	F	37	1	DISEASE 4	14/02/2009	19/02/2009	NEW DELHI	01121111114

2 rows returned in 0.00 seconds   CSV Export

Q7. LIST ALL THE CONTACT NO OF CARDIO DEPARTMENT.

SELECT CONTACT_NO
FROM DEPARTMENT D, DEPT_CONTACT DC
WHERE D.DEPT_ID=DC.DEPT_ID AND D.DEPT_NAME='CARDIO'

Results	Explain	Describe	Saved SQL	History	

CONTACT_NO
0112333333
0112333334

2 rows returned in 0.02 seconds   CSV Export

LIBRARY MANAGEMENT SYSTEM

In this phase we will create tables based on the design done in the first phase using SQL queries and will write select queries to retrieve information from database based on various criteria.

TABLE PUBLISHER:

Results   Explain   Describe   Saved SQL   History

PUB_ID	PUB_NAME	CONTACT_NO	ADDRESS
PUB-01	DHANPATRAI	01122222222	NEW DELHI
PUB-02	TMH	01122222224	NEW DELHI
PUB-03	PEARSON	01145222224	NEW DELHI

3 rows returned in 0.02 seconds   CSV Export

TABLE BOOK:

Results   Explain   Describe   Saved SQL   History

BOOK_ID	PUB_ID	TITLE	CATEGORY	PRICE
BK-01	PUB-02	CONCEPT OF DS	COMPUTER SCIENCE	235
BK-02	PUB-01	STRENGTH OF MATERIAL	MECHANICAL	430
BK-03	PUB-01	PRACT APPROACH TO DBMS	COMPUTER SCIENCE	786
BK-04	PUB-01	MICROWAVE	ELECTRONICS	435
BK-05	PUB-03	APPLIED MATHS	MATHS	460

5 rows returned in 0.00 seconds   CSV Export

TABLE AUTHOR:

Results Explain Describe Saved SQL History

AUTH_ID	AUTH_NAMENAME	CONTACT_NO	ADDRESS
AU-01	ANAND	4567970099	NEW DELHI
AU-02	MOHIT DAVE	4567970569	NEW DELHI
AU-03	NAZIA	4567970569	NEW DELHI
AU-04	S.AHMED	4567780569	NEW DELHI

4 rows returned in 0.03 seconds   CSV Export

TABLE STUDENT:

Results Explain Describe Saved SQL History

STUDENT_ID	NAME	DEPARTMENT	SEMESTER	CONTACT_NO
ST-01	ZAIN	COE	1	9999999999
ST-02	NADA	COE	1	9999996699
ST-03	ANUSHA	ECE	2	9967996699
ST-04	AMIT	ECE	2	9967978699
ST-05	HENA	COE	3	4567978699
ST-06	AMRITA	ECE	4	4567970099

6 rows returned in 0.03 seconds   CSV Export

TABLE ISSUE:

Results Explain Describe Saved SQL History

BOOK_ID	STUDENT_ID	ISSUE_DATE	RETURN_DATE	FINE	REMARK
BK-03	ST-01	2/02/2009	20/02/2009	10	0
BK-02	ST-04	13/03/2009	20/03/2009	10	0
BK-04	ST-03	20/03/2009	30/03/2009	30	RETURN WITHOUT COVER
BK-05	ST-01	13/03/2009	20/03/2009	0	--
BK-01	ST-02	25/03/2009	NULL	0	--
BK-03	ST-04	25/03/2009	NULL	0	--

6 rows returned in 0.02 seconds   CSV Export

TABLE WRITES:

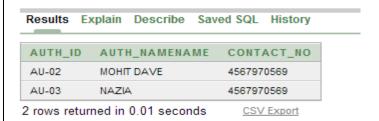Results   Explain   Describe   Saved SQL   History

BOOK_ID	AUTH_ID
BK-01	AU-02
BK-02	AU-03
BK-03	AU-02
BK-03	AU-03
BK-04	AU-04
BK-05	AU-01

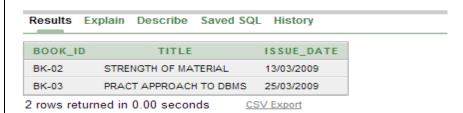6 rows returned in 0.03 seconds   CSV Export

QUERIES:

Q1.   LIST THE DEATILS OF AUTHORS OF BOOK "PRAC APPROACH TO DBMS".

SELECT A.AUTH_ID, A.AUTH_NAMENAME, A.CONTACT_NO
FROM AUTHOR A, BOOK B, WRITES W
WHERE B.TITLE='PRACT APPROACH TO DBMS' AND A.AUTH_ID=W.AUTH_ID AND B.BOOK_ID=W.BOOK_ID

Results Explain Describe Saved SQL History

AUTH_ID	AUTH_NAMENAME	CONTACT_NO
AU-02	MOHIT DAVE	4567970569
AU-03	NAZIA	4567970569

2 rows returned in 0.01 seconds   CSV Export

Q2.   LIST ALL DETAILS OF THE BOOKS WHICH ARE CURRENTLY ISSUED TO STUDENT   WITH ID "ST-04".

SELECT B.BOOK_ID, B.TITLE, I.ISSUE_DATE
FROM BOOK B, STUDENT S, ISSUE I
WHERE I.STUDENT_ID='ST-04' AND B.BOOK_ID=I.BOOK_ID AND S.STUDENT_ID=I.STUDENT_ID AND
I.RETURN_DATE IS NULL

Results Explain Describe Saved SQL History

BOOK_ID	TITLE	ISSUE_DATE
BK-02	STRENGTH OF MATERIAL	13/03/2009
BK-03	PRACT APPROACH TO DBMS	25/03/2009

2 rows returned in 0.00 seconds   CSV Export

Q3.   LIST ALL THE DETAILS OF THE BOOKS THAT HAVE BEEN ISSUED TO THE STUDENT WITH ID 'ST-01' YET.

SELECT B.BOOK_ID, B.TITLE, I.ISSUE_DATE, I.RETURN_DATE
FROM BOOK B, ISSUE I
WHERE I.STUDENT_ID='ST-01' AND B.BOOK_ID=I.BOOK_ID AND S.STUDENT_ID=I.STUDENT_ID AND
I.RETURN_DATE IS NULL

Results   Explain   Describe   Saved SQL   History

BOOK_ID	TITLE	ISSUE_DATE	RETURN_DATE
BK-03	PRACT APPROACH TO DBMS	2/02/2009	20/02/2009
BK-05	APPLIED MATHS	13/03/2009	20/03/2009

2 rows returned in 0.00 seconds   CSV Export

Q4.   LIST ALL BOOKS WHICH ARE AVAILABLE IN LIBRARY.

SELECT B.BOOK_ID, B.TITLE, S.STUDENT_NAME, S.STUDENT_ID, I.ISSUE_DATE
FROM BOOK B, ISSUE I, STUDENT S
WHERE S.STUDENT_ID=I.STUDENT_ID AND B.BOOK_ID=I.BOOK_ID AND I.RETURN_DATE IS NOT NULL

Results   Explain   Describe   Saved SQL   History

BOOK_ID	TITLE	STUDENT_NAME	STUDENT_ID	ISSUE_DATE
BK-03	PRACT APPROACH TO DBMS	AMEERA	ST-01	2/02/2009
BK-02	STRENGTH OF MATERIAL	MANISHA	ST-04	13/03/2009
BK-04	MICROWAVE	MANISH	ST-03	20/03/2009
BK-05	APPLIED MATHS	AMEERA	ST-01	13/03/2009
BK-01	CONCEPT OF DS	MONIZA	ST-02	25/03/2009
BK-03	PRACT APPROACH TO DBMS	MANISHA	ST-04	25/03/2009

6 rows returned in 0.00 seconds   CSV Export

Q5.   LIST THE BOOKS WHICH ARE AVAILABLE IN LIBRARY.
SELECT B.BOOK_ID, B.TITLE
FROM BOOK B, ISSUE I
WHERE B.BOOK_ID=I.BOOK_ID AND I.RETURN_DATE IS NOT NULL

Results   Explain   Describe   Saved SQL   History

BOOK_ID	TITLE
BK-03	PRACT APPROACH TO DBMS
BK-02	STRENGTH OF MATERIAL
BK-04	MICROWAVE
BK-05	APPLIED MATHS
BK-01	CONCEPT OF DS
BK-03	PRACT APPROACH TO DBMS

6 rows returned in 0.02 seconds   CSV Export

Q6.   LIST THE STUDENTS WHO ARE HAVING MORE THAN ONE BOOK.

SELECT I.STUDENT_ID, S.NAME, COUNT(BOOK_ID) "NO OF BOOKS"
FROM ISSUE I, LIB_STUDENT S
WHERE S.STUDENT_ID=I.STUDENT_ID AND I.RETURN_DATE IS NOT NULL
GROUP BY I.STUDENT_ID, S.NAME HAVING COUNT(BOOK_ID)>1

Results   Explain   Describe   Saved SQL   History

STUDENT_ID	NAME	NO OF BOOKS
ST-01	ZAIN	2
ST-04	AMIT	2

2 rows returned in 0.00 seconds   CSV Export

Q7.   LIST THE DETAILS OF STUDENT WHO ISSUED THE BOOK FROM LIBRARY WITH BOOK ID BK-03.

SELECT S.STUDENT_ID, S.STUDENT_NAME, I.ISSUE_DATE, I.RETURN_DATE
FROM STUDENT S, ISSUE I
WHERE I.BOOK_ID='BK-03' AND S.STUDENT_ID=I.STUDENT_ID

Results   Explain   Describe   Saved SQL   History

STUDENT_ID	STUDENT_NAME	ISSUE_DATE	RETURN_DATE
ST-01	AMEERA	2/02/2009	20/02/2009
ST-04	MANISHA	25/03/2009	NULL

2 rows returned in 0.17 seconds   CSV Export

Q8. FIND OUT THE PUBLICATION, OF WHICH LIBRARY IS HAVING MAX NO OF BOOKS.

SELECT B.PUB_ID, P.PUB_NAME, COUNT(B.BOOK_ID) "NO OF BOOKS"
FROM BOOK B, PUBLISHER P
WHERE B.PUB_ID=P.PUB_ID
GROUP BY B.PUB_ID, P.PUB_NAME
HAVING COUNT(B.BOOK_ID)>=ALL(SELECT COUNT(BOOK_ID) FROM BOOK GROUP BY PUB_ID)

Results   Explain   Describe   Saved SQL   History

PUB_ID	PUB_NAME	NO OF BOOKS
PUB-01	DHANPATRAI	3

1 rows returned in 0.05 seconds   CSV Export