DBMS Lab List

Experiment #	Name of Experiment
6	Order Processing Database
7	Book dealer Database
8	Student Enrolment Database
9	Movie Database
10	College Database

LAB6:

i) Create the tables by properly specifying the primary keys and the foreign keys and the foreign keys.
ii) Enter at least five tuples for each relation.

table customer

	CUST_NO	CNAME	CITY
1	1	a	blore
2	2	b	blore
3	3	c	blore
4	4	d	chennai
5	5	e	japan

table item

	ITEM_NO	UNIT_PRICE
1	10	100
2	11	200
3	12	200
4	13	300
5	14	400
6	15	500

table order_item

	ORDER_NO	ITEM_NO	QTY
1	100	10	2
2	101	11	3
3	102	12	3
4	103	13	1
5	105	14	5
6	105	15	5

table orders

	ORDER_NO	ODATE	CUST_NO	ORD_AMT
1	100	02-FEB-20	1	100
2	101	04-FEB-20	2	200
3	102	02-FEB-20	3	300
4	103	04-FEB-20	4	300
5	105	04-FEB-20	5	500

table shipment

	ORDER_NO	WAREHOUSE_NO	SHIT_DATE
1	100	20	22-FEB-20
2	101	20	22-FEB-20
3	102	21	01-MAR-20
4	103	22	02-MAR-20
5	105	22	02-MAR-20
6	105	23	10-MAR-20
7	102	24	10-MAR-20
8	103	25	20-MAR-20

table ware house

	WAREHOUSE_NO	CITY
1	20	blore
2	21	blore
3	22	chennai
4	23	chennai
5	24	blore
6	25	mumbai

query iii) Produce a listing: CUSTNAME, #oforders, AVG_ORDER_AMT, where the middle column is the total

	CNAME	NO_OF_ORDERS	AVG_ORDER_AMT
1	b	1	200
2	c	1	300
3	a	1	100
4	d	1	300
5	e	1	500

query v) Demonstrate how you delete item# 10 from the ITEM table and make that field null in the ORDER_ITEM table

	ORDER_NO	ITEM_NO	QTY
1	100	(null)	2
2	101	11	3
3	102	12	3
4	103	13	1
5	105	14	5
6	105	15	5

query iv) List the order# for orders that were shipped from all warehouses that the company has in a specific city.

	ORDER_NO	ODATE	CUST_NO	ORD_AMT
1	100	02-FEB-20	1	100
2	101	04-FEB-20	2	200
3	102	02-FEB-20	3	300

Lab7:

table book lending

	BOOK_ID	BRANCH_ID	CARD_NO	DATE_OUT	DUE_DATE
1	3	11	101	01-JAN-20	10-FEB-20
2	2	10	101	11-FEB-20	11-MAR-20
3	4	11	101	01-FEB-20	10-MAR-20
4	1	11	104	11-MAR-20	22-APR-20
5	2	11	104	12-MAR-20	22-AUG-20

table book

	BOOK_ID	TITLE	PUBLISHER_NAME	PUB_YEAR
1	1	ada	shreyash	JAN-2017
2	2	evs	shreyash	JUN-2016
3	3	ada	shashank	SEP-2016
4	4	os	suraj	SEP-2015
5	5	dbms	shashank	MAY-2016

table books copies

	BOOK_ID	BRANCH_ID	COPIES
1	2	10	4
2	3	11	6
3	3	12	5
4	4	11	1
5	5	12	3

table card

	CARD_NO
1	100
2	101
3	102
4	103
5	104

table library branch

	BRANCH_ID	BRANCH_NAME	ADDRESS
1	10	tokyo	Japan
2	11	nagoyama	Japan
3	12	hiroshima	Japan
4	13	mg road	Bangalore
5	14	jp nagar	bangalore

table publisher

	NAME	ADDRESS	PHONE
1	shreyash	111111111	Japan
2	shashank	222222222	Bangalore
3	sumanth	3333333333	chennai
4	suraj	444444444	chennai
5	shreyas	44444444	Japan

query 3 Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc.

	BOOK_ID	TITLE	PUBLISHER_NAME	AUTHOR_NAME	COPIES	BRANCH_ID
1	2	evs	shreyash	shreyash	4	10
2	3	ada	shashank	sumanth	6	11
3	3	ada	shashank	sumanth	5	12
4	4	os	suraj	naruto	1	11
5	5	dbms	shashank	susuke	3	12

query 4: Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun 2017.

CARD_NO

query 5 Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation

	BOOK_ID	TITLE	PUBLISHER_NAME	PUB_YEAR
1	1	ada	shreyash	JAN-2017
2	2	evs	shreyash	JUN-2016
3	4	os	suraj	SEP-2015
4	5	dbms	shashank	MAY-2016

query 6 Partition the BOOK table based on year of publication. Demonstrate its working with a simple query

	PUB_YEAR
1	JAN-2017
2	JUN-2016
3	SEP-2015
4	MAY-2016

query 7 Create a view of all books and its number of copies that are currently available in the Library.

	BOOK_ID	TITLE	COPIES
1	2	evs	4
2	4	os	1
3	5	dbms	3

Lab8

table book adoption

	COURSENO	SEM	BOOK_ISBN
1	111	5	900
2	111	5	903
3	111	5	904
4	112	3	901
5	113	3	10
6	114	5	905
7	113	5	902
8	115	3	906

table course

	COURSENO	CNAME	DEPT
1	111	OS	CSE
2	112	EC	ECE
3	113	SS	ISE
4	114	DBMS	CSE
5	115	SIGNALS	ECE

table enroll

	REGNO	COURSENO	SEM	MARKS
1	1pe11cs002	114	5	100
2	1pe11cs003	113	5	100
3	1pe11cs004	111	5	100
4	1pe11cs005	112	3	100
5	1pe11cs001	115	3	100

table student

	REGNO	NAME	MAJOR	BDATE
1	1pe11cs002	b	sr	24-SEP-93
2	1pe11cs003	c	sr	27-NOV-93
3	1pe11cs004	d	sr	13-APR-93
4	1pe11cs005	e	jr	24-AUG-94
5	1pe11cs001	a	jr	24-AUG-94

table text

	BOOK_ISBN	BOOK_TITLE	PUBLISHER	AUTHOR
1	10	DATABASE SYSTEMS	PEARSON	SCHIELD
2	900	OPERATING SYS	PEARSON	LELAND
3	901	CIRCUITS	HALL INDIA	BOB
4	902	SYSTEM SOFTWARE	PETERSON	JACOB
5	903	SCHEDULING	PEARSON	PATIL
6	904	DATABASE SYSTEMS	PEARSON	JACOB
7	905	DATABASE MANAGER	PEARSON	BOB
8	906	SIGNALS	HALL INDIA	SUMIT

query 4: . Produce a list of text books (include Course #, Book-ISBN, Booktitle) in the alphabetical order for courses offered by the 'CS' department that use more than two books

	COURSENO	BOOK_ISBN	BOOK_TITLE
1	111	904	DATABASE SYSTEMS
2	111	900	OPERATING SYS
3	111	903	SCHEDULING

query 5 List any department that has all its adopted books published by a specific publisher

	DEPT
1	CSE

LAB 9

TABLE1:

	ACT_ID	ACT_NAME	ACT_GENDER
1	101	anushka	F
2	102	deepika	F
3	103	shahid	M
4	104	tom	M

TABLE 2:

	DIR_ID	DIR_NAME	DIR_PHONE
1	30	Karan	8751619001
2	31	RajaMouli	7766138911
3	33	Steven Spielberg	9889776530
4	32	Hitchcock	9987766531

TABLE 3:

	MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
1	1001	Bahubali-1	2015	Telagu	31
2	1002	Bahubali-2	2017	Telagu	31
3	1003	Akash	2008	Kannada	32
4	1004	War House	2011	english	33

TABLE 4:

	ACT_ID	MOV_ID	ROLE
1	101	1001	Heroine
2	101	1002	Heroine
3	103	1003	Hero
4	103	1002	Guest
5	104	1004	Hero

TABLE 5;

	MOV_ID	REV_STARS
1	1001	4
2	1002	2
3	1003	5
4	1004	4

1. List the titles of all movies directed by ‘Hitchcock’.

	MOV_TITLE
1	Akash

2. Find the movie names where one or more actors acted in two or more movies.

	MOV_TITLE
1	Bahubali-2

3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

	ACT_NAME
1	anushka
2	shahid

4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

	MOV_...	MAX(REV_STARS)
1	Akash	5
2	Bahubali-1	4
3	Bahubali-2	2
4	War House	4

5. Update rating of all movies directed by ‘Steven Spielberg’ to 5.

	MOV_ID	REV_STARS
1	1001	4
2	1002	2
3	1003	5
4	1004	5

Lab 10

table class

	USN	SSID
1	111a	CSE8A
2	111b	CSE8A
3	111d	CSE8B
4	111c	CSE8C
5	111e	CSE7A
6	111q	CSE7A
7	111f	CSE7A
8	111h	CSE4A
9	111i	CSE4A
10	111j	CSE4B
11	111k	CSE4C
12	1111	CSE3A
13	111m	CSE3B
14	111n	CSE3C

table iammarks

	USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
1	111c	10CS81	CSE8C	15	16	18	16
2	111c	10CS82	CSE8C	12	19	14	18
3	111c	10CS83	CSE8C	19	15	20	18
4	111c	10CS84	CSE8C	20	16	19	19
5	111c	10CS85	CSE8C	15	15	12	13

table semsec

	SSID	SEM	SEC
1	CSE8A	8	A
2	CSE8B	8	B
3	CSE8C	8	C
4	CSE7A	7	A
5	CSE7B	7	B
6	CSE7C	7	C
7	CSE6A	6	A
8	CSE6B	6	B
9	CSE6C	6	C
10	CSE5A	5	A
11	CSE5B	5	B
12	CSE5C	5	C
13	CSE4A	4	A
14	CSE4B	4	B
15	CSE4C	4	C
16	CSE3A	3	A
17	CSE3B	3	B
18	CSE3C	3	C
19	CSE2A	2	A
20	CSE2B	2	B
21	CSE2C	2	C
22	CSE1A	1	A
23	CSE1B	1	B
24	CSE1C	1	C

table student

	USN	SNAME	ADDRESS	PHONE	GENDER
1	111a	a	chennai	111	A
2	111b	b	banqalore	222	B
3	111c	c	banqalore	333	C
4	111d	d	manqaluru	111	D
5	111e	e	banqalore	444	E
6	111f	f	banqalore	555	F
7	111q	q	banqalore	666	G
8	111h	h	chickpet	777	H
9	111i	i	place	888	F
10	111j	j	hestia	999	A
11	111k	k	manqaluru	1010	A
12	1111	l	jammu	1212	A
13	111m	m	japan	1313	B
14	111n	n	mysore	1414	B

table subject

	SUBCODE	TITLE	SEM	CREDITS
1	10CS81	ACA	8	4
2	10CS82	SSM	8	4
3	10CS83	NM	8	4
4	10CS84	CC	8	4
5	10CS85	PW	8	4
6	10CS71	OOAD	7	4
7	10CS72	ECS	7	4
8	10CS73	PTW	7	4
9	10CS74	DWDM	7	4
10	10CS75	JAVA	7	4
11	10CS76	SAN	7	4
12	15CS51	ME	5	4
13	15CS52	CN	5	4
14	15CS53	DBMS	5	4
15	15CS54	ATC	5	4
16	15CS55	JAVA	5	3
17	15CS56	AI	5	3
18	15CS41	M4	4	4
19	15CS42	SE	4	4
20	15CS43	DAA	4	4
21	15CS44	MPMC	4	4
22	15CS45	OOC	4	3
23	15CS46	DC	4	3
24	15CS31	M3	3	4
25	15CS32	ADE	3	4
26	15CS33	DSA	3	4
27	15CS34	CO	3	4
28	15CS35	USP	3	3
29	15CS36	DMS	3	3

query 1 List all the student details studying in fourth semester ‘C’ section.

	USN	SNAME	ADDRESS	PHONE	GENDER	SEM	SEC
1	111k	k	mangaluru	1010	A	4	C

query 2 Compute the total number of male and female students in each semester and in each section

	SEM	SEC	GENDER	COUNT
1	3	A	A	1
2	3	B	B	1
3	3	C	B	1
4	4	A	F	1
5	4	A	H	1
6	4	B	A	1
7	4	C	A	1
8	7	A	E	1
9	7	A	F	1
10	7	A	G	1
11	8	A	A	1
12	8	A	B	1
13	8	B	D	1
14	8	C	C	1

query 3 Create a view of Test1 marks of student USN ‘1BI15CS101’ in all subjects

	TEST1	SUBCODE
1	15	10CS81
2	12	10CS82
3	19	10CS83
4	20	10CS84
5	15	10CS85

query 4 Categorize students based on the following criterion:
If FinalIA = 17 to 20 then CAT = ‘Outstanding’
If FinalIA = 12 to 16 then CAT = ‘Average’
If FinalIA< 12 then CAT = ‘Weak’
Give these details only for 8th semester A, B, and C section students

	USN	SNAME	ADDRESS	PHONE	GENDER	CAT
1	111c	c	bangalore	333	C	AVERAGE
2	111c	c	bangalore	333	C	OUTSTANDING
3	111c	c	bangalore	333	C	OUTSTANDING
4	111c	c	bangalore	333	C	OUTSTANDING
5	111c	c	bangalore	333	C	AVERAGE