

DBMS PRACTICAL 5

INLAB

KL UNIVERSITY ERP

- 1) Create the database in mysql and create the necessary tables for the given case study using appropriate keys and relationships between the tables
- 2) Insert atleast 10 records into every table that is implemented in the case study

The screenshot shows a MySQL Workbench interface with a SQL editor containing the following queries:

```

10 • create table fee(branch varchar(20),fee_type varchar(20),_year int,semester int,feeamount bigint);
11 • create table other_fee(fee_type varchar(20),fee_amount bigint);
12 • insert into student values(1000,'Hari',9988776655,'abcd@gmail.com','Vijayawada','CSE');
13 • insert into student values(2000,'Gopal',7654328998,'pqr@gmail.com','Hyderabad','ECE');
14 • insert into student values(1001,'Jaya',9876543246,'ptyui@gmail.com','Hyderabad','CSE');
15 • insert into student values(1002,'Kiran',7864569878,'kjhyu@gmail.com','Hyderabad','CSE');
16 • insert into student values(2001,'Kalyan',8765498755,'kieee@gmail.com','Hyderabad','ECE');
17 • select * from student;
18 • insert into faculty values(5001,'Krishna','Asst.Prof',35000,9988773211,'hhhh@gmail.com','Vijayawada','CSE');
19 • insert into faculty values(5002,'Hari','Assoc.Prof',75000,7876543334,'kiuyt@gmail.com','Hyderabad','CSE');

```

The Result Grid shows the following data for the 'student' table:

regno	name	mobilenr	emailid	address	branch
1000	Hari	9988776655	abcd@gmail.com	Vijayawada	CSE
2000	Gopal	7654328998	pqr@gmail.com	Hyderabad	ECE
1001	Jaya	9876543246	ptyui@gmail.com	Hyderabad	CSE
1002	Kiran	7864569878	kjhyu@gmail.com	Hyderabad	CSE
2001	Kalyan	8765498755	kieee@gmail.com	Hyderabad	ECE

The screenshot shows a MySQL Workbench interface with a SQL editor containing the following queries:

```

16 • insert into student values(2001,'Kalyan',8765498755,'kieee@gmail.com','Hyderabad','ECE');
17 • select * from student;
18 • insert into faculty values(5001,'Krishna','Asst.Prof',35000,9988773211,'hhhh@gmail.com','Vijayawada','CSE');
19 • insert into faculty values(5002,'Hari','Assoc.Prof',75000,7876543334,'kiuyt@gmail.com','Hyderabad','CSE');
20 • insert into faculty values(5003,'Mohan','Asst.Prof',40000,8678987689,'klptre@gmail.com','Hyderabad','ECE');
21 • insert into faculty values(5004,'Giri','Asst.Prof',30000,7896578967,'dfgh@gmail.com','Hyderabad','CSE');
22 • select * from faculty;
23 • insert into course values('18CS2101','DBMS','CSE',2,1);
24 • insert into course values('18CS2102','EP','CSE',2,1);
25 • insert into course values('18CS2103','OS','CSE',2,1);

```

The Result Grid shows the following data for the 'faculty' table:

fid	fname	designation	salary	fmobile	fmail	fadd	branch
5001	Krishna	Asst.Prof	35000	9988773211	hhhh@gmail.com	Vijayawada	CSE
5002	Hari	Assoc.Prof	75000	7876543334	kiuyt@gmail.com	Hyderabad	CSE
5003	Mohan	Asst.Prof	40000	8678987689	klptre@gmail.com	Hyderabad	ECE
5004	Giri	Asst.Prof	30000	7896578967	dfgh@gmail.com	Hyderabad	CSE

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

19 • insert into faculty values(5002,'Hari','Assoc.Prof',75000,7876543334,'kiuyt@gmail.com','Hyderabad','CSE');
20 • insert into faculty values(5003,'Mohan','Asst.Prof',40000,8678987689,'klptre@gmail.com','Hyderabad','ECE');
21 • insert into faculty values(5004,'Giri','Asst.Prof.',30000,7896578967,'dfgh@gmail.com','Hyderabad','CSE');
22 • select * from faculty;
23 • insert into course values('18CS2101','DBMS','CSE',2,1);
24 • insert into course values('18CS2102','EP','CSE',2,1);
25 • insert into course values('18CS2103','OS','CSE',2,1);
26 • insert into course values('18CS3101','WE','CSE',3,1);
27 • select * from course;
28 • insert into stu_reg_courses values(1000,2,1,'18C2101','CSE',5002);

```

Result Grid

	ccode	cname	branch	year	semester
▶	18CS2101	DBMS	CSE	2	1
	18CS2102	EP	CSE	2	1
	18CS2103	OS	CSE	2	1
	18CS3101	WE	CSE	3	1

Form Editor

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

28 • insert into stu_reg_courses values(1000,2,1,'18C2101','CSE',5002);
29 • insert into stu_reg_courses values(1001,2,1,'18C2102','CSE',5001);
30 • insert into stu_reg_courses values(1002,2,1,'18C2103','CSE',5001);
31 • select * from stu_reg_courses;
32 • insert into library_books values(101,'DBMS','RaghuramaKrishna','Pearson',5,350,10);
33 • insert into library_books values(102,'OS','Tanenbom','Willman',4,300,15);
34 • insert into library_books values(103,'Let Us C','Kanetkar','Pearson',7,600,25);
35 • insert into library_books values(104,'Java Complete Reference','Peter Naughton','Pearson',6,500,30);
36 • select * from library_books;
37 • insert into acad_performance values(1000,2,1,1,9,3);

```

Result Grid

	regno	_year	semester	coursecode	branch	fid
▶	1000	2	1	18C2101	CSE	5002
	1001	2	1	18C2102	CSE	5001
	1002	2	1	18C2103	CSE	5001

Form Editor

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

28 • insert into stu_reg_courses values(1000,2,1,'18C2101','CSE',5002);
29 • insert into stu_reg_courses values(1001,2,1,'18C2102','CSE',5001);
30 • insert into stu_reg_courses values(1002,2,1,'18C2103','CSE',5001);
31 • select * from stu_reg_courses;
32 • insert into library_books values(101,'DBMS','RaghuramaKrishna','Pearson',5,350,10);
33 • insert into library_books values(102,'OS','Tanenbom','Willman',4,300,15);
34 • insert into library_books values(103,'Let Us C','Kanetkar','Pearson',7,600,25);
35 • insert into library_books values(104,'Java Complete Reference','Peter Naughton','Pearson',6,500,30);
36 • select * from library_books;
37 • insert into acad_performance values(1000,2,1,1,9,3);

```

Result Grid

	acono	btitle	author	publisher	edition	price	numofcopies
▶	101	DBMS	RaghuramaKrishna	Pearson	5	350	10
	102	OS	Tanenbom	Willman	4	300	15
	103	Let Us C	Kanetkar	Pearson	7	600	25
	104	Java Complete Reference	Peter Naughton	Pearson	6	500	30

Form Editor

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

35 • insert into library_books values(104, 'Java Complete Reference', 'Peter Naughton', 'Pearson',6,500,30);
36 • select * from library_books;
37 • insert into acad_performance values(1000 ,1 ,1 ,9.3);
38 • insert into acad_performance values(1001 ,1, 1, 9.2);
39 • insert into acad_performance values(1002 ,1, 1, 9.1);
40 • insert into acad_performance values(2000 ,1, 2, 9.1);
41 • insert into acad_performance values(2001, 1, 2, 9.3);
42 • insert into acad_performance values(3000 ,1, 2, 9.2);
43 • select * from acad_performance;
44 • insert into issue_register values(2000 ,101 , '01/05/2020');

```

Result Grid

regid	_year	semester	cgpa
1000	1	1	9.3
1001	1	1	9.2
1002	1	1	9.1
2000	1	2	9.1
2001	1	2	9.3
3000	1	2	9.2

Result Grid
Form Editor
Field Types

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

41 • insert into acad_performance values(2001, 1, 2, 9.3);
42 • insert into acad_performance values(3000 ,1, 2, 9.2);
43 • select * from acad_performance;
44 • insert into issue_register values(2000 ,101 , '01/05/2020');
45 • insert into issue_register values(1001 ,102, '05/06/2020');
46 • insert into issue_register values(1002 ,101, '09/05/2020');
47 • select * from issue_register;
48 • insert into fee values('CSE','Tuition Fee',1,1,125000);
49 • insert into fee values('ESE','Tuition Fee',1,1,100000);
50 • insert into fee values('ME','Tuition Fee',1,1,80000);

```

Result Grid

regno	acono	issuedate
2000	101	01/05/2020
1001	102	05/06/2020
1002	101	09/05/2020

Result Grid
Form Editor

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

44 • insert into issue_register values(2000 ,101 , '01/05/2020');
45 • insert into issue_register values(1001 ,102, '05/06/2020');
46 • insert into issue_register values(1002 ,101, '09/05/2020');
47 • select * from issue_register;
48 • insert into fee values('CSE','Tuition Fee',1,1,125000);
49 • insert into fee values('ESE','Tuition Fee',1,1,100000);
50 • insert into fee values('ME','Tuition Fee',1,1,80000);
51 • insert into fee values('EEE','Tuition Fee',1,1,70000);
52 • select * from fee;
53 • insert into other_fee values('RUS',15000);

```

Result Grid

branch	fee_type	_year	semester	feamount
CSE	Tuition Fee	1	1	125000
ESE	Tuition Fee	1	1	100000
ME	Tuition Fee	1	1	80000
EEE	Tuition Fee	1	1	70000

Result Grid
Form Editor

The screenshot shows a SQL Developer window with a query window titled 'SQL File 9*'. The query contains the following SQL code:

```

49 • insert into fee values('ESE','Tuition Fee',1,1,100000);
50 • insert into fee values('ME','Tuition Fee',1,1,80000);
51 • insert into fee values('EEE','Tuition Fee',1,1,70000);
52 • select * from fee;
53 • insert into other_fee values('BUS',15000);
54 • insert into other_fee values('HOSTEL', 80000);
55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);

```

The result grid shows the following data:

fee_type	fee_amount
BUS	15000
HOSTEL	80000
SPORTS	10000
PT	20000

3. Write a query to find the number of students who got the CGPA 9 & above in year wise?

The screenshot shows a SQL Developer window with a query window titled 'SQL File 9*'. The query contains the following SQL code:

```

51 • insert into fee values('EEE','Tuition Fee',1,1,70000);
52 • select * from fee;
53 • insert into other_fee values('BUS',15000);
54 • insert into other_fee values('HOSTEL', 80000);
55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);
59 • select _year,count(*) from acad_performance group by cgpa>=9.0;
60 • select * from faculty where fadd='Vijayawada';

```

The result grid shows the following data:

_year	count(*)
1	6

4. Display all faculties who stay in Vijayawada

The screenshot shows a SQL Developer window with a query window titled 'SQL File 9*'. The query contains the following SQL code:

```

52 • select * from fee;
53 • insert into other_fee values('BUS',15000);
54 • insert into other_fee values('HOSTEL', 80000);
55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);
59 • select _year,count(*) from acad_performance group by cgpa>=9.0;
60 • select * from faculty where fadd='Vijayawada';
61 • select * from faculty f where salary>(select max(salary) from faculty);

```

The result grid shows the following data:

fid	fname	designation	salary	fmobile	fmail	fadd	branch
5001	Krishna	Asst.Prof	35000	9988773211	hhhh@gmail.com	Vijayawada	CSE

5. Write a query to display faculty id , fname, salary who is/are drawing highest salary in faculty id order.

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

53 • insert into other_fee values('BUS',15000);
54 • insert into other_fee values('HOSTEL', 80000);
55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);
59 • select _year,count(*) from acad_performance group by cgpa>=9.0;
60 • select * from faculty where fadd='Vijayawada';
61 • select * from faculty f where salary=(select max(salary) from faculty);
62 • select * from faculty f where salary>=(select avg(salary) from faculty);

```

Result Grid

fid	fname	designation	salary	fmobile	fmail	fadd	branch
5002	Hari	Assoc.Prof	75000	7876543334	kiuyt@gmail.com	Hyderabad	CSE

6. Write sql query to display all the faculty whose salary is greater than the average salary of all the faculty.

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

54 • insert into other_fee values('HOSTEL', 80000);
55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);
59 • select _year,count(*) from acad_performance group by cgpa>=9.0;
60 • select * from faculty where fadd='Vijayawada';
61 • select * from faculty f where salary=(select max(salary) from faculty);
62 • select * from faculty f where salary>=(select avg(salary) from faculty);
63 • select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;

```

Result Grid

fid	fname	designation	salary	fmobile	fmail	fadd	branch
5002	Hari	Assoc.Prof	75000	7876543334	kiuyt@gmail.com	Hyderabad	CSE

7. Write a query to display the faculty details for all courses registered by a student;

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* x tutorial 5 covid SQL File 11*

Limit to 1000 rows

```

55 • insert into other_fee values('SPORTS', 10000);
56 • insert into other_fee values('PT', 20000);
57 • select * from other_fee;
58 • insert into acad_performance values(5000,2,1,9.5);
59 • select _year,count(*) from acad_performance group by cgpa>=9.0;
60 • select * from faculty where fadd='Vijayawada';
61 • select * from faculty f where salary=(select max(salary) from faculty);
62 • select * from faculty f where salary>=(select avg(salary) from faculty);
63 • select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
64 • select s._count() as Number of books issued from student s inner join issue register i on s.regno=i.regno group by regno;

```

Result Grid

fid	fname	designation	salary	fmobile	fmail	fadd	branch
5001	Krishna	Asst.Prof	35000	9988773211	hhhh@gmail.com	Vijayawada	CSE
5002	Hari	Assoc.Prof	75000	7876543334	kiuyt@gmail.com	Hyderabad	CSE

8. Display the number of books issued to each student with his details

The screenshot shows a SQL IDE with a query editor and a result grid. The query editor contains the following SQL code:

```

44 * insert into other_fee values('BUS',15000);
45 * insert into other_fee values('HOSTEL', 80000);
46 * insert into other_fee values('SPORTS', 10000);
47 * insert into other_fee values('PT', 20000);
48 * insert into acad_performance values(5000,2,1,9.5);
49 *select _year,count(*) from acad_performance where cgpa>=9.0;
50 * select * from faculty where fadd='Vijayawada';
51 * select * from faculty f where salary>=(select avg(salary) from faculty);
52 * select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
53 *select s.*,count(*) as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
54

```

The result grid displays the following data:

regno	name	mobleno	emailid	address	branch	Number_of_books_issued
2000	Gopal	7654328998	pqr@gmail.com	Hyderabad	ECE	1
1001	Jaya	9876543246	ptyui@gmail.com	Hyderabad	CSE	1
1002	Kiran	7864569878	kgthy@gmail.com	Hyderabad	CSE	2

9.Display the number of students registered under each faculty

The screenshot shows a SQL IDE with a query editor and a result grid. The query editor contains the following SQL code:

```

57 * select * from other_fee;
58 * insert into acad_performance values(5000,2,1,9.5);
59 * select _year,count(*) from acad_performance group by cgpa>=9.0;
60 * select * from faculty where fadd='Vijayawada';
61 * select * from faculty f where salary=(select max(salary) from faculty);
62 * select * from faculty f where salary>=(select avg(salary) from faculty);
63 * select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
64 *select s.,count() as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
65 * select fid,count(*) as Number_of_Students from stu_reg_courses group by fid;
66 * select count(*) as Number_of_students_register_in_ERP from student;

```

The result grid displays the following data:

fid	Number_of_Students
5002	1
5001	2

10.Display the number of students who registered in ERP

The screenshot shows a SQL IDE with a query editor and a result grid. The query editor contains the following SQL code:

```

58 * insert into acad_performance values(5000,2,1,9.5);
59 * select _year,count(*) from acad_performance group by cgpa>=9.0;
60 * select * from faculty where fadd='Vijayawada';
61 * select * from faculty f where salary=(select max(salary) from faculty);
62 * select * from faculty f where salary>=(select avg(salary) from faculty);
63 * select distinct f.* from faculty f inner join stu_reg_courses s on f.fid=s.fid;
64 *select s.,count() as Number_of_books_issued from student s inner join issue_register i on s.regno=i.regno group by regno;
65 * select fid,count(*) as Number_of_Students from stu_reg_courses group by fid;
66 * select count(*) as Number_of_students_register_in_ERP from student;

```

The result grid displays the following data:

Number_of_students_register_in_ERP
5