

LAB-1 INSURANCE DATABASE

```
create database Insurance;
show databases;
use Insurance;
show tables;
create table PERSON(driverid
varchar(20),dname varchar(20),address
varchar(40),primary key(driverid));
desc PERSON;

create table CAR(regno varchar(10),model
varchar(10),year int ,primary
key(regno));
desc CAR;

create table ACCIDENT(report_no int,adate
date,location varchar(20),primary
key(report_no));
desc ACCIDENT;

create table OWNS(driverid
varchar(10),regno varchar(10),primary
key(driverid,regno),
foreign key(driverid) references
PERSON(driverid) on delete cascade,
foreign key(regno) references CAR(regno)
on delete cascade);
```

```
CREATE TABLE PARTICIPATED(driverid
varchar(10),regno varchar(10),report_no
int,
damage_amt float, foreign key
(driverid,regno) references
OWNS(driverid,regno)
ON DELETE CASCADE,foreign key (REPORT_NO)
references ACCIDENT(REPORT_NO) ON DELETE
CASCADE);
desc PARTICIPATED;
insert into PERSON
values('1111','Ramu','K.S.LAYOUT');
commit;
select* FROM PERSON;
insert into PERSON
values('2222','John','INDIRANAGAR');
insert into PERSON
values('3333','Priya','JAYANAGAR');
insert into PERSON
values('4444','Gopal','WHITEFIELD');
insert into PERSON
values('5555','Latha','VIJAYNAGAR');
commit;
insert into CAR
values('KA04Q2301','MARUTHI-DX', 2000);
insert into CAR values('KA05P1000',
'FORDICON', 2000);
```

```
insert into CAR values('KA03L1234', 'ZEN-VXI', 1999);
insert into CAR values('KA03L9999', 'MARUTHI-DX', 2002);
insert into CAR values('KA01P4020', 'INDICA-VX', 2002);
commit;
select * from CAR;
```

```
insert into ACCIDENT
values(12, '2002-06-01', 'M G ROAD');
insert into ACCIDENT values(200,
'2002-12-10', 'DOUBLEROAD');
insert into ACCIDENT values(300,
'1999-07-23', 'M G ROAD');
insert into ACCIDENT values(25000,
'2000-06-11', 'RESIDENCY ROAD');
insert into ACCIDENT values(26500,
'2001-10-16', 'RICHMOND CIRCLE');
commit;
select * from ACCIDENT;
```

```
insert into OWNS
values('1111', 'KA04Q2301');
insert into OWNS values('1111',
'KA05P1000');
```

```
insert into OWNS values('2222',
'KA03L1234');

insert into OWNS values('3333',
'KA03L9999');

insert into OWNS values('4444',
'KA01P4020');

commit;

select * from OWNS;
```

```
insert into PARTICIPATED values('1111',
'KA04Q2301', 12 ,20000);

insert into PARTICIPATED values('2222',
'KA03L1234', 200, 500);

insert into PARTICIPATED values('3333',
'KA03L9999', 300, 10000);

insert into PARTICIPATED values('4444',
'KA01P4020', 25000 ,2375);

insert into PARTICIPATED values('1111',
'KA05P1000', 26500 ,70000);
```

```
UPDATE PARTICIPATED SET DAMAGE_AMT=25000
WHERE REPORT_NO =12 AND
REGNO='KA04Q2301';

select * from PARTICIPATED;
```

```
select count(*) from ACCIDENT where Adate  
like '2002-__';  
select count(A.Report_no) from ACCIDENT  
A, PARTICIPATED P, CAR C where  
A.Report_no=P.Report_no AND  
P.Regno=C.Regno AND C.Model="MARUTHI-DX";
```


OUTPUT LAB -1

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Tables: accident, car, owns, participated, person

Query 1:

```

50 • insert into PARTICIPATED values('1111', 'KA04Q2301', 12 ,20000);
51 • insert into PARTICIPATED values('2222', 'KA03L1234', 200 ,500);
52 • insert into PARTICIPATED values('3333', 'KA03L9999', 300 ,10000);
53 • insert into PARTICIPATED values('4444', 'KA01P4020', 25000 ,2375);
54 • insert into PARTICIPATED values('1111', 'KA05P1000', 26500 ,70000);
55
56 • UPDATE PARTICIPATED SET DAMAGE_AMT=25000 WHERE REPORT_NO =12 AND REGNO='KA04Q2301';

```

Result Grid:

report_no	adate	location
12	2002-06-01	M G ROAD
200	2002-12-10	DOUBLEROAD
300	1999-07-23	M G ROAD
25000	2000-06-11	RESIDENCY ROAD
26500	2001-10-16	RICHMOND CIRCLE
NULL	NULL	NULL

Action Output:

Time	Action	Message	Duration / Fetch
22 08:55:40	commit	0 row(s) affected	0.000 sec
23 08:55:40	insert into CAR values('KA04Q2301','MARUTHI-DX')	1 row(s) affected	0.016 sec
24 08:55:40	insert into CAR values('KA05P1000','FORDICON')	1 row(s) affected	0.000 sec
25 08:55:40	insert into CAR values('KA03L1234','ZEN-VX')	1 row(s) affected	0.000 sec
26 08:55:40	insert into CAR values('KA03L9999','MARUTHI-DX')	1 row(s) affected	0.000 sec
27 08:55:40	insert into CAR values('KA01P4020','INDICA-VX')	1 row(s) affected	0.016 sec
28 08:55:40	commit	0 row(s) affected	0.000 sec
29 08:55:40	select * from CAR LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
30 08:55:40	insert into ACCIDENT values(12,2002-06-01,'M G ROAD')	1 row(s) affected	0.000 sec
31 08:55:40	insert into ACCIDENT values(200,2002-12-10,'DOUBLEROAD')	1 row(s) affected	0.000 sec
32 08:55:40	insert into ACCIDENT values(300,1999-07-23,'M G ROAD')	1 row(s) affected	0.000 sec

Output:

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Tables: accident, car, owns, participated, person

Query 1:

```

1 create database Insurance;
2 show databases;
3 use Insurance;
4 show tables;
5 create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid));
6 desc PERSON;
7 create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno));
8 desc CAR;
9 create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no));

```

Result Grid:

regno	model	year
KA01P4020	INDICA-VX	2002
KA03L1234	ZEN-VX	1999
KA03L9999	MARUTHI-DX	2002
KA04Q2301	MARUTHI-DX	2000
KA05P1000	FORDICON	2000

Action Output:

Time	Action	Message	Duration / Fetch
1 08:55:25	DROP DATABASE 'insurance'	5 row(s) affected	0.172 sec
2 08:55:39	create database Insurance	1 row(s) affected	0.000 sec
3 08:55:39	show databases	4 row(s) returned	0.015 sec / 0.000 sec
4 08:55:39	use Insurance	0 row(s) affected	0.000 sec
5 08:55:39	show tables	0 row(s) returned	0.000 sec / 0.000 sec
6 08:55:39	create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))	0 row(s) affected	0.047 sec
7 08:55:39	desc PERSON	3 row(s) returned	0.000 sec / 0.000 sec
8 08:55:39	create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))	0 row(s) affected	0.046 sec
9 08:55:39	desc CAR	3 row(s) returned	0.000 sec / 0.000 sec
10 08:55:39	create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))	0 row(s) affected	0.047 sec
11 08:55:39	desc ACCIDENT	3 row(s) returned	0.000 sec / 0.000 sec

Output:

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

OUTPUT LAB -1

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Table: owns

Columns: driverid varchar(10) PK
regno varchar(10) PK

Action Output

```

1 08:55:25 DROP DATABASE `insurance`
2 08:55:39 create database Insurance
3 08:55:39 use Insurance
4 08:55:39 show tables
5 08:55:39 create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))
6 08:55:39 desc PERSON
7 08:55:39 create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))
8 08:55:39 desc CAR
9 08:55:39 create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))
10 08:55:39 desc ACCIDENT
11 08:55:39 desc ACCIDENT

```

Result Grid

driverid	regno
4444	KAOIP4020
2222	KAO3L1234
3333	KAO3L9999
1111	KAOHQ2301
1111	KAO5P1000

PERSON 17 CAR 18 ACCIDENT 19 OWNS 20 PARTICIPATED 21 Result 22 Result: Apply Context Help Snippets

Output:

Action Output

```

1 08:55:25 DROP DATABASE `insurance`
2 08:55:39 create database Insurance
3 08:55:39 show databases
4 08:55:39 use Insurance
5 08:55:39 show tables
6 08:55:39 create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))
7 08:55:39 desc PERSON
8 08:55:39 create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))
9 08:55:39 desc CAR
10 08:55:39 create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))
11 08:55:39 desc ACCIDENT

```

Message Duration / Fetch

Time	Action	Message	Duration	Fetch
1 08:55:25	DROP DATABASE `insurance`	5 row(s) affected	0.172 sec	
2 08:55:39	create database Insurance	1 row(s) affected	0.000 sec	
3 08:55:39	show databases	4 row(s) returned	0.015 sec / 0.000 sec	
4 08:55:39	use Insurance	0 row(s) affected	0.000 sec	
5 08:55:39	show tables	0 row(s) returned	0.000 sec / 0.000 sec	
6 08:55:39	create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))	0 row(s) affected	0.047 sec	
7 08:55:39	desc PERSON	3 row(s) returned	0.000 sec / 0.000 sec	
8 08:55:39	create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))	0 row(s) affected	0.046 sec	
9 08:55:39	desc CAR	3 row(s) returned	0.000 sec / 0.000 sec	
10 08:55:39	create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))	0 row(s) affected	0.047 sec	
11 08:55:39	desc ACCIDENT	3 row(s) returned	0.000 sec / 0.000 sec	

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MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Table: participated

Columns: driverid varchar(10)
regno varchar(10)
report_no int
damage_amt float

Action Output

```

1 08:55:25 DROP DATABASE `insurance`
2 08:55:39 create database Insurance
3 08:55:39 use Insurance
4 08:55:39 show tables
5 08:55:39 create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))
6 08:55:39 desc PERSON
7 08:55:39 create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))
8 08:55:39 desc CAR
9 08:55:39 create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))
10 08:55:39 desc ACCIDENT
11 08:55:39 desc ACCIDENT

```

Result Grid

driverid	regno	report_no	damage_amt
1111	KAOHQ2301	12	25000
2222	KAO3L1234	200	500
3333	KAO3L9999	300	10000
4444	KAOIP4020	25000	2375
1111	KAO5P1000	26500	7000

PERSON 17 CAR 18 ACCIDENT 19 OWNS 20 PARTICIPATED 21 Result 22 Result: Read Only Context Help Snippets

Output:

Action Output

```

1 08:55:25 DROP DATABASE `insurance`
2 08:55:39 create database Insurance
3 08:55:39 show databases
4 08:55:39 use Insurance
5 08:55:39 show tables
6 08:55:39 create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))
7 08:55:39 desc PERSON
8 08:55:39 create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))
9 08:55:39 desc CAR
10 08:55:39 create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))
11 08:55:39 desc ACCIDENT

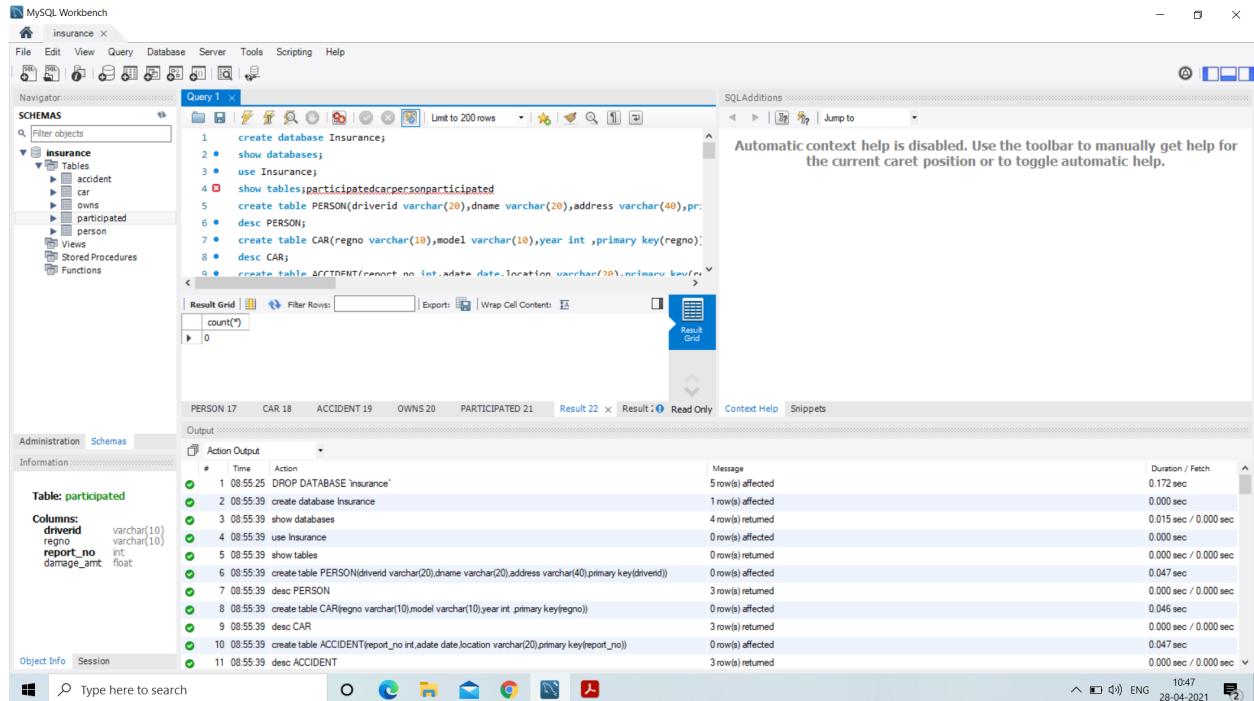
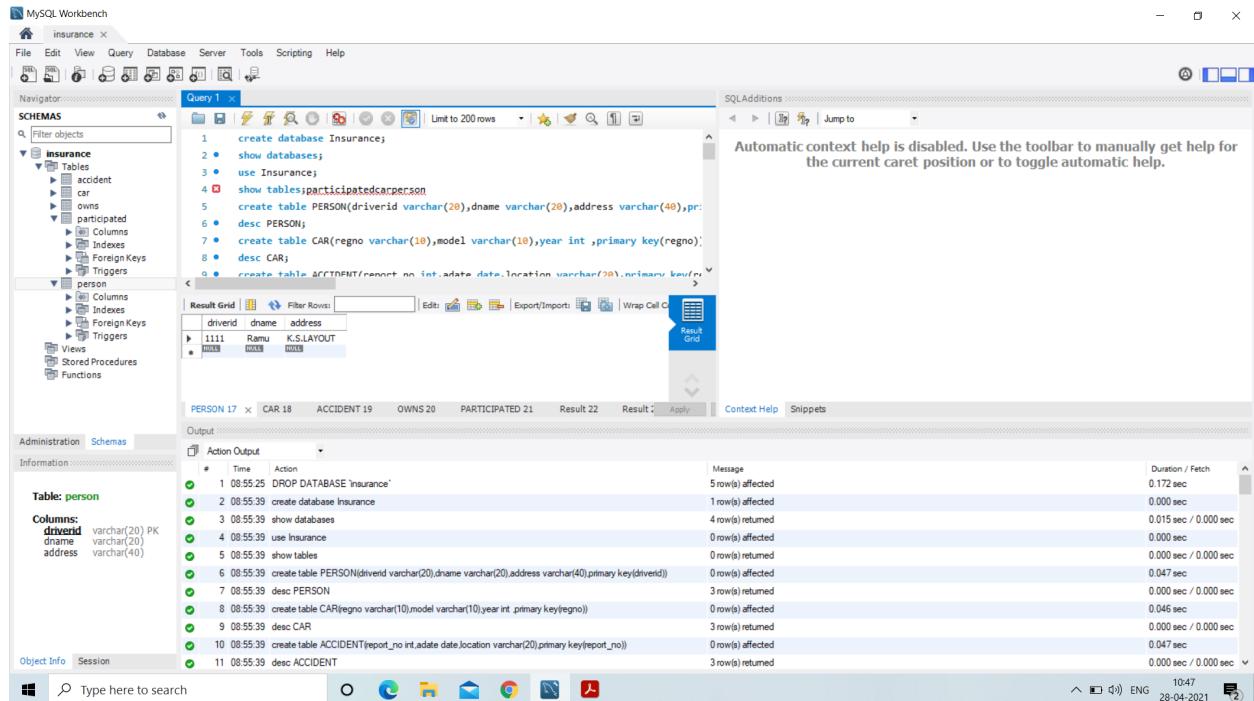
```

Message Duration / Fetch

Time	Action	Message	Duration	Fetch
1 08:55:25	DROP DATABASE `insurance`	5 row(s) affected	0.172 sec	
2 08:55:39	create database Insurance	1 row(s) affected	0.000 sec	
3 08:55:39	show databases	4 row(s) returned	0.015 sec / 0.000 sec	
4 08:55:39	use Insurance	0 row(s) affected	0.000 sec	
5 08:55:39	show tables	0 row(s) returned	0.000 sec / 0.000 sec	
6 08:55:39	create table PERSON(driverid varchar(20),dname varchar(20),address varchar(40),primary key(driverid))	0 row(s) affected	0.047 sec	
7 08:55:39	desc PERSON	3 row(s) returned	0.000 sec / 0.000 sec	
8 08:55:39	create table CAR(regno varchar(10),model varchar(10),year int ,primary key(regno))	0 row(s) affected	0.046 sec	
9 08:55:39	desc CAR	3 row(s) returned	0.000 sec / 0.000 sec	
10 08:55:39	create table ACCIDENT(report_no int,adate date,location varchar(20),primary key(report_no))	0 row(s) affected	0.047 sec	
11 08:55:39	desc ACCIDENT	3 row(s) returned	0.000 sec / 0.000 sec	

11:05 28-04-2021

OUTPUT LAB -1



LAB-2 BOOKDEALER

```
create database bookdealer;
use bookdealer;
create table AUTHOR (
author_id int,
name varchar(20),
city varchar(15),
country varchar(15),
primary key(author_id)
);
show tables;
desc AUTHOR;
SELECT *FROM AUTHOR;
create table PUBLISHER (
publisher_id int,
name varchar(20),
city varchar(15),
country varchar(15),
primary key(publisher_id)
);
show tables;
desc PUBLISHER;
SELECT *FROM PUBLISHER;
create table CATEGORY(
category_id int,
description varchar(20),
```

```
primary key(category_id)
);
show tables;
desc CATEGORY;
SELECT *FROM CATEGORY;
create table CATALOG (
book_id int,
title varchar(15),
author_id int,
publisher_id int,
category_id int,
foreign key(author_id) references
AUTHOR(author_id) on delete cascade,
foreign key(publisher_id) references
PUBLISHER(publisher_id) on delete cascade,
foreign key(category_id) references
CATEGORY(category_id) on delete cascade,
year int,
price int,
primary key(book_id)
);
show tables;
desc CATALOG;
SELECT *FROM CATALOG;
create table ORDER_DETAILS (
order_no int,
book_id int,
```

```
foreign key(book_id) references CATALOG(book_id)
on delete cascade,
quantity int
);
show tables;
desc ORDER_DETAILS;
SELECT *FROM ORDER_DETAILS;
insert into
AUTHOR(author_id,name,city,country)values(1001,
TERAS CHAN', 'CA', 'USA');
insert into
AUTHOR(author_id,name,city,country)values(1002,
STEVENS', 'ZOMBI', 'UGANDA');
insert into
AUTHOR(author_id,name,city,country)values(1003,
M MANO', 'CAIR', 'CANADA');
insert into
AUTHOR(author_id,name,city,country)values(1004,
KARTHIK B.P', 'NEW YORK', 'USA');
insert into
AUTHOR(author_id,name,city,country)values(1005,
WILLIAM STALLINGS', 'LAS VEGAS', 'USA');
COMMIT;
desc AUTHOR;
SELECT *FROM AUTHOR;
insert into
PUBLISHER(publisher_id,name,city,country)values(
1,'PEARSON', 'NEW YORK', 'USA');
```

```
insert into
PUBLISHER(publisher_id,name,city,country)values(
2,'EEE','NEW SOUTH VALES','USA');

insert into
PUBLISHER(publisher_id,name,city,country)values(
3,'PHI','DELHI','INDIA');

insert into
PUBLISHER(publisher_id,name,city,country)values(
4,'WILLEY','BERLIN','GERMANY');

insert into
PUBLISHER(publisher_id,name,city,country)values(
5,'MGH ','NEW YORK','USA');

COMMIT;

desc PUBLISHER;
SELECT *FROM PUBLISHER;

insert into
CATEGORY(category_id,description)values(1001,'COMPUTER SCIENCE');

insert into
CATEGORY(category_id,description)values(1002,'ALGORITHM DESIGN');

insert into
CATEGORY(category_id,description)values(1003,'ELECTRONICS');

insert into
CATEGORY(category_id,description)values(1004,'PROGRAMMING');
```

```
insert into
CATEGORY(category_id,description)values(1005,'OP
ERATING SYSTEMS');

COMMIT;

desc CATEGORY;

SELECT *FROM CATEGORY;

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(11,'Unix System
Prg',1001,1,1001,2000,251);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(12,'Digital
Signals',1002,2,1003,2001,425);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(13,'Logic
Design',1003,3,1002,1999,225);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(14,'Server
Prg',1004,4,1004,2001,333);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(15,'Linux
OS',1005,5,1005,2003,326);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
```

```

egory_id,year,price)values(16,'C++ Bible',1005,5
,1001,2000,526);

insert into
CATALOG(book_id,title,author_id,publisher_id,cat
egory_id,year,price)values(17,'COBOL
Handbook',1005,4,1001,2000,658);

COMMIT;

desc CATALOG;

SELECT *FROM CATALOG;

insert into ORDER_DETAILS(order_no,book_id,quantity)values(1,11,5);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(2,12,8);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(3,13,15);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(4,14,22);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3);
insert into ORDER_DETAILS(order_no,book_id,quantity)values(2,17,10);

COMMIT;

desc ORDER_DETAILS;

SELECT *FROM ORDER_DETAILS;

/*Give the details of the authors who have 2 or more books in the catalog
and the price of the books in the
catalog and the year of publication is after 2000*/
SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where
AUTHOR.author_id=CATALOG.author_id group by CATALOG.author_id having
count(CATALOG.author_id)>=2;
SELECT price from CATALOG where year>2000;

/*Find the author of the book which has maximum sales.*/
select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and
book_id in(select book_id from ORDER_DETAILS where quantity=(select
max(quantity) from ORDER_DETAILS));
/*Demonstrate how you increase the price of books published by a specific
publisher by 10%.*/
update CATALOG set price=1.1*price where publisher_id in(select publisher_id
from PUBLISHER where name='PEARSON');
select *from CATALOG;

```


Lab-2 Bookdealer output

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS book dealer insurance

Tables

author catalog category order_details publisher

Views

Stored Procedures

Functions

author_id name city country

Result Grid

author_id name city country

1005 WILLIAM STALLINGS LAS VEGAS USA

Action Output

#	Time	Action	Message	Duration / Fetch
62	02-44-56	insert into ORDER_DETAILS(order_no,book_id,quantity) values(5,15,3)	1 row(s) affected	0.000 sec
63	02-44-56	insert into ORDER_DETAILS(order_no,book_id,quantity) values(2,17,10)	1 row(s) affected	0.000 sec
64	02-44-56	COMMIT	0 row(s) affected	0.000 sec
65	02-44-56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02-44-56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02-44-56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id	1 row(s) returned	0.000 sec / 0.000 sec
68	02-44-57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02-44-57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select book_id from CATALOG where year>2000 LIMIT 0, 1000)	1 row(s) returned	0.000 sec / 0.000 sec
70	02-44-57	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name=PEARSON)	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name=PEARSON)	0.015 sec
71	02-44-57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Ready Type here to search

03:13 05-05-2021

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS book dealer insurance

Tables

author catalog category order_details publisher

Views

Stored Procedures

Functions

catalog

book_id title author_id publisher_id category_id year price

Result Grid

book_id title author_id publisher_id category_id year price

11 Unix System Prg 1001 1 1001 2000 251

12 Digital Signals 1002 2 1003 2001 425

13 Logic Design 1003 3 1002 1999 225

14 Server Prg 1004 4 1004 2001 333

15 Linux OS 1005 5 1005 2003 326

Action Output

#	Time	Action	Message	Duration / Fetch
62	02-44-56	insert into ORDER_DETAILS(order_no,book_id,quantity) values(5,15,3)	1 row(s) affected	0.000 sec
63	02-44-56	insert into ORDER_DETAILS(order_no,book_id,quantity) values(2,17,10)	1 row(s) affected	0.000 sec
64	02-44-56	COMMIT	0 row(s) affected	0.000 sec
65	02-44-56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02-44-56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02-44-56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id	1 row(s) returned	0.000 sec / 0.000 sec
68	02-44-57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02-44-57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select book_id from CATALOG where year>2000 LIMIT 0, 1000)	1 row(s) returned	0.000 sec / 0.000 sec
70	02-44-57	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name=PEARSON)	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name=PEARSON)	0.015 sec
71	02-44-57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Ready Type here to search

03:13 05-05-2021

The screenshot shows the MySQL Workbench application window. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has a Navigator section with SCHEMAS and a tree view for the book_dealer database, including tables like author, catalog, category, order_details, publisher, and views like STORED PROCEDURES and FUNCTIONS. Below the sidebar is a toolbar with various icons for database management. The main area contains a 'Query 1' tab with a results grid showing data from the CATALOG table. The grid has columns: book_id, title, author_id, publisher_id, category_id, year, and price. The results show entries for Unix System Prg, Digital Signals, Logic Design, Server Prg, and Linux OS. Below the grid is a status bar with tabs for CATALOG, ORDER_DETAILS, and other tables. The bottom half of the screen displays the 'Information' pane for the category table, showing its columns: category_id (int PK) and description (varchar(20)). It also lists recent actions in the 'Action Output' section, such as inserting rows into ORDER_DETAILS and selecting data from CATALOG. The bottom right corner shows the system tray with icons for network, battery, and volume.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator and Schemas. The Navigator shows the book_dealer and insurance databases, with their respective tables, views, stored procedures, and functions. The Schemas section highlights the book_dealer database. The main area contains a query editor titled 'Query 1' with the following SQL code:

```
43
44
45
46
47
48
49
```

The result grid shows the following data:

	order_no	book_id	quantity
1	11	5	
2	12	8	
3	13	15	
4	14	22	
5	15	3	

The bottom pane shows the SQL history with the following log entries:

#	Time	Action	Message	Duration / Fetch
62	02:44:56	insert into ORDER_DETAIL(order_no,book_id,quantity) values(5,15,3)	1 row(s) affected	0.000 sec
63	02:44:56	insert into ORDER_DETAIL(order_no,book_id,quantity) values(2,17,10)	1 row(s) affected	0.000 sec
64	02:44:56	COMMIT	0 row(s) affected	0.000 sec
65	02:44:56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec
66	02:44:56	SELECT * FROM ORDER_DETAIL LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02:44:56	SELECT AUTHOR.author_id, name, city, country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id	1 row(s) returned	0.000 sec / 0.000 sec
68	02:44:57	SELECT price FROM CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02:44:57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select publisher_id from PUBLISHER where name like '%P%')	1 row(s) returned	0.000 sec / 0.000 sec
70	02:44:57	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name like '%P%')	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
71	02:44:57	select * from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

book dealer x insurance x

File Edit View Query Database Server Tools Scripting Help

Navigator:

- Schemas
 - bookdealer
 - insurance
- Tables
- catalog
- category
- order_details
- publisher
- author
- Views
- Stored Procedures
- Functions

Query 1 x

```

66 insert into PUBLISHER(publisher_id,name,city,country)values(3,'PHI','DELHI','INDIA');
67 insert into PUBLISHER(publisher_id,name,city,country)values(4,'WILEY','BERLIN','GERMANY');
68 insert into PUBLISHER(publisher_id,name,city,country)values(5,'MGH ','NEW YORK ','USA');
69 COMMIT;
70 desc PUBLISHER;
71 SELECT *FROM PUBLISHER;
72 insert into CATEGORY(category_id,description)values(1001,'COMPUTER SCIENCE');
73
    
```

Result Grid | Filter Rows: [] | Edit: [] | Export/Import: [] | Wrap Cell Content: []

publisher_id	name	city	country
1	PEARSON	NEW YORK	USA
2	EEE	NEW SOUTH VALES	USA
3	PHI	DELHI	INDIA
4	WILEY	BERLIN	GERMANY
5	MGH	NEW YORK	USA

PUBLISHER 19 x Result 20 CATEGORY 21 Result 22 CATALOG 23 Result 24 ORDER_DETAILS 25 Result 26 CATALOG 27 Result 28 CATALOG 29 Result 29 Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
62	02:44:56	insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3)	1 row(s) affected	0.000 sec
63	02:44:56	insert into ORDER_DETAIL斯order_no,book_id,quantity)values(2,17,10)	1 row(s) affected	0.000 sec
64	02:44:56	COMMIT	0 row(s) affected	0.000 sec
65	02:44:56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02:44:56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02:44:56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id	1 row(s) returned	0.000 sec / 0.000 sec
68	02:44:57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02:44:57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select ...)	1 row(s) returned	0.000 sec / 0.000 sec
70	02:44:57	update CATALOG set price=1.1*price where publisher_id=1 select publisher_id from PUBLISHER where name...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
71	02:44:57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Ready Type here to search 02:15 05-05-2021

MySQL Workbench

book dealer x insurance x

File Edit View Query Database Server Tools Scripting Help

Navigator:

- Schemas
 - bookdealer
 - insurance
- Tables
- catalog
- category
- order_details
- publisher
- author
- Views
- Stored Procedures
- Functions

Query 1 x

```

97 • desc ORDER_DETAILS;
98 • SELECT *FROM ORDER_DETAILS;
99 /*Give the details of the authors who have 2 or more books in the catalog and the price of the books in the
100 catalog and the year of publication is after 2000*/
101 • SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id group by CATALOG.author_id having count(AUTHOR.author_id)>2;
102 • SELECT price from CATALOG where year>2000;
103 /*Find the author of the book which has maximum sales.*/
    
```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

price
425
333
326

18 PUBLISHER 19 x Result 20 CATEGORY 21 Result 22 CATALOG 23 Result 24 ORDER_DETAILS 25 Result 26 CATALOG 27 x Result 28 Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
62	02:44:56	insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3)	1 row(s) affected	0.000 sec
63	02:44:56	insert into ORDER_DETAIL斯order_no,book_id,quantity)values(2,17,10)	1 row(s) affected	0.000 sec
64	02:44:56	COMMIT	0 row(s) affected	0.000 sec
65	02:44:56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02:44:56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02:44:56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id	1 row(s) returned	0.000 sec / 0.000 sec
68	02:44:57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02:44:57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select ...)	1 row(s) returned	0.000 sec / 0.000 sec
70	02:44:57	update CATALOG set price=1.1*price where publisher_id=1 select publisher_id from PUBLISHER where name...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
71	02:44:57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Ready Type here to search 04:09 05-05-2021

MySQL Workbench

book dealer x insurance x

File Edit View Query Database Server Tools Scripting Help

Navigator:

- Schemas
 - bookdealer
 - insurance
- Tables
- Views
- Stored Procedures
- Functions

Query 1 x

```

103 /*Find the author of the book which has maximum sales.*/
104 • select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select book_id from ORDER_DETAILS where quantity=(select
105 /*Demonstrate how you increase the price of books published by a specific publisher by 10%.*/
106 • update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name='PEARSON');
107 • select *from CATALOG;
108
109

```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

name
KARTHIK.B.P

18 PUBLISHER 19 Result 20 CATEGORY 21 Result 22 CATALOG 23 Result 24 ORDER_DETAILS 25 Result 26 CATALOG 27 Result 28 x Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
62	02-44:56	insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3)	1 row(s) affected	0.000 sec
63	02-44:56	insert into ORDER_DETAIL斯order_no,book_id,quantity)values(2,17,10)	1 row(s) affected	0.000 sec
64	02-44:56	COMMIT	0 row(s) affected	0.000 sec
65	02-44:56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02-44:56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02-44:56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select	1 row(s) returned	0.000 sec / 0.000 sec
68	02-44:57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02-44:57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select	1 row(s) returned	0.000 sec / 0.000 sec
70	02-44:57	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name='	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
71	02-44:57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Ready Type here to search 04:10 05-05-2021

MySQL Workbench

book dealer x insurance x

File Edit View Query Database Server Tools Scripting Help

Navigator:

- Schemas
 - bookdealer
 - insurance
- Tables
- Views
- Stored Procedures
- Functions

Query 1 x

```

103 /*Find the author of the book which has maximum sales.*/
104 • select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select book_id from ORDER_DETAILS where quantity=(select
105 /*Demonstrate how you increase the price of books published by a specific publisher by 10%.*/
106 • update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name='PEARSON');
107 • select *from CATALOG;
108
109

```

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

book_id	title	author_id	publisher_id	category_id	year	price
11	Unix System Prg	1001	1	1001	2000	251
12	Digital Signals	1002	2	1003	2001	425
13	Logic Design	1003	3	1002	1999	225
14	Server Prg	1004	4	1004	2001	333
15	Linux OS	1005	5	1005	2003	326

18 PUBLISHER 19 Result 20 CATEGORY 21 Result 22 CATALOG 23 x Result 24 ORDER_DETAILS 25 Result 26 CATALOG 27 Result 28 Apply Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
62	02-44:56	insert into ORDER_DETAILS(order_no,book_id,quantity)values(5,15,3)	1 row(s) affected	0.000 sec
63	02-44:56	insert into ORDER_DETAIL斯order_no,book_id,quantity)values(2,17,10)	1 row(s) affected	0.000 sec
64	02-44:56	COMMIT	0 row(s) affected	0.000 sec
65	02-44:56	desc ORDER_DETAILS	3 row(s) returned	0.000 sec / 0.000 sec
66	02-44:56	SELECT *FROM ORDER_DETAILS LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
67	02-44:56	SELECT AUTHOR.author_id,name,city,country FROM AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select	1 row(s) returned	0.000 sec / 0.000 sec
68	02-44:57	SELECT price from CATALOG where year>2000 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
69	02-44:57	select name from AUTHOR,CATALOG where AUTHOR.author_id=CATALOG.author_id and book_id in(select	1 row(s) returned	0.000 sec / 0.000 sec
70	02-44:57	update CATALOG set price=1.1*price where publisher_id in(select publisher_id from PUBLISHER where name='	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
71	02-44:57	select *from CATALOG LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Ready Type here to search 04:10 05-05-2021

LAB-3 ORDER PROCESSING

```
create database Order_processing;
use Order_processing;
CREATE TABLE CUSTOMER
(
    cust_no int,
    cname VARCHAR(15),
    city VARCHAR(15),
    PRIMARY KEY(cust_no)
);

CREATE TABLE ORDERS(
    order_no int,
    odate date,
    cust_no int,
    foreign key(cust_no) references
    CUSTOMER(cust_no) on delete cascade,
    ord_Amt int,
    primary key(order_no)
);

create table ITEM (
    item_no int,
    unit_price int,
    primary key(item_no)
```

```
) ;

create table ORDER_ITEM (
    order_no int,
    item_no int,
    qty int,
    foreign key(order_no) references
    ORDERS(order_no) on delete cascade,
    foreign key(item_no) references
    ITEM(item_no) on delete SET NULL
) ;

create table WAREHOUSE(
    warehouseno int,
    city varchar(30),
    primary key(warehouseno)
) ;

create table SHIPMENT(
    order_no int,
    warehouseno int,
    ship_date date,
    foreign key(order_no) references
    ORDERS(order_no) on delete cascade,
    foreign key(warehouseno) references
    WAREHOUSE(warehouseno) on delete cascade
) ;
```

```
insert into
CUSTOMER(cust_no,cname,city)values(771,'PU
SHPA K','BANGALORE');

insert into
CUSTOMER(cust_no,cname,city)values(772,'SU
MAN','MUMBAI');

insert into
CUSTOMER(cust_no,cname,city)values(773,'SO
URAV','CALICUT');

insert into
CUSTOMER(cust_no,cname,city)values(774,'LA
ILA','HYDERABAD');

insert into
CUSTOMER(cust_no,cname,city)values(775,'FA
IZAL','BANGALORE');

COMMIT;

desc CUSTOMER;

SELECT *FROM CUSTOMER;

insert into
ORDERS(order_no,odate,cust_no,ord_Amt)valu
es(111,'22-01-02',771,18000);

insert into
ORDERS(order_no,odate,cust_no,ord_Amt)valu
es(112,'30-07-02',774,6000);

insert into
ORDERS(order_no,odate,cust_no,ord_Amt)valu
es(113,'03-04-03',775,9000);
```

```
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(114,'03-11-03',775,29000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(115,'10-12-03',773,29000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(116,'19-08-04',772,56000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(117,'10-09-04',771,20000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(118,'20-11-04',775,29000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(119,'13-02-05',774,29000);
insert into
ORDERS(order_no,odate,cust_no,ord_Amt)values(120,'13-10-05',775,29000);
COMMIT;

desc ORDERS;

SELECT *FROM ORDERS;

insert into
ITEM(item_no,unit_price)values(5001,503);
insert into
ITEM(item_no,unit_price)values(5002,750);
```

```
insert into
ITEM(item_no,unit_price)values(5003,150);
insert into
ITEM(item_no,unit_price)values(5004,600);
insert into
ITEM(item_no,unit_price)values(5005,890);
COMMIT;

desc ITEM;

SELECT *FROM ITEM;

insert into
ORDER_ITEM(order_no,item_no,qty)values(111
,5001,50);
insert into
ORDER_ITEM(order_no,item_no,qty)values(112
,5003,20);
insert into
ORDER_ITEM(order_no,item_no,qty)values(113
,5002,50);
insert into
ORDER_ITEM(order_no,item_no,qty)values(114
,5005,60);
insert into
ORDER_ITEM(order_no,item_no,qty)values(115
,5004,90);
insert into
ORDER_ITEM(order_no,item_no,qty)values(116
,5001,10);
```

```
insert into
ORDER_ITEM(order_no,item_no,qty)values(117
,5003,80);
insert into
ORDER_ITEM(order_no,item_no,qty)values(118
,5005,50);
insert into
ORDER_ITEM(order_no,item_no,qty)values(119
,5002,10);
insert into
ORDER_ITEM(order_no,item_no,qty)values(120
,5004,45);
COMMIT;

desc ORDER_ITEM;

SELECT *FROM ORDER_ITEM;

insert into
WAREHOUSE(warehouseno,city)values(1,'DELHI
');
insert into
WAREHOUSE(warehouseno,city)values(2,'BOMBA
Y');
insert into
WAREHOUSE(warehouseno,city)values(3,'CHENN
AI');
insert into
WAREHOUSE(warehouseno,city)values(4,'BANGA
LORE');
```

```
insert into
WAREHOUSE(warehouseno,city)values(5,'BANGA
LORE');

insert into
WAREHOUSE(warehouseno,city)values(6,'DELHI
');

insert into
WAREHOUSE(warehouseno,city)values(7,'BOMBA
Y');

insert into
WAREHOUSE(warehouseno,city)values(8,'CHENN
AI');

insert into
WAREHOUSE(warehouseno,city)values(9,'DELHI
');

insert into
WAREHOUSE(warehouseno,city)values(10,'BANG
ALORE');

COMMIT;

desc WAREHOUSE;

SELECT *FROM WAREHOUSE;

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(111,1,'10-02-02');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(112,5,'10-09-02');
```

```
insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(113,8,'10-02-03');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(114,3,'10-12-03');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(115,9,'19-01-04');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(116,1,'20-09-04');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(117,5,'10-09-04');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(118,7,'30-11-04');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(119,7,'30-04-05');

insert into
SHIPMENT(order_no,warehouseno,ship_date)va
lues(120,6,'21-12-05');

COMMIT;

desc SHIPMENT;

SELECT *FROM SHIPMENT;
```

```
/*Produce a listing: CUSTNAME, #oforders,
AVG_ORDER_AMT, where the middle column
is the total numbers of orders by the
customer and the last column is the
average order amount for that customer.*/
SELECT C.CNAME as CUSTNAME, COUNT(*) as
no_of_orders, AVG(O.ord_Amt) as
AVG_ORDER_AMT FROM CUSTOMER C, ORDERS O
WHERE C.cust_no=O.cust_no GROUP BY
C.CNAME;

/*List the order# for orders that were
shipped from all warehouses that the
company has in a specific city.*/
SELECT order_no FROM WAREHOUSE W, SHIPMENT
S WHERE W.warehouseno=S.warehouseno AND
CITY='BANGALORE';

/*Demonstrate how you delete item# 10 from
the ITEM table and make that field null in
the ORDER_ITEM table.*/
delete from ITEM where item_no=5005;

select *from ITEM;

select *from ORDER_ITEM;
```

Lab -3 order processing

MySQL Workbench

order processing X

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Query 1 X

```
114 • SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=-
115 /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116 • delete from ITEM where item_no=5005;
117 • select *from ITEM;
118 • select *from ORDER_ITEM;
```

Result Grid | Filter Rows: [] | Edit: [] | Export/Import: [] | Wrap Cell Content: []

cust_no	cname	city
771	PUSHPA K	BANGALORE
772	SUMAN	MUMBAI
773	SOURAV	CALCUT
774	LALIA	HYDERABAD
775	FAIZAL	BANGALORE

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information: CUSTOMER 2 | Result 3 | ORDERS 4 | Result 5 | ITEM 6 | Result 7 | ORDER_ITEM 8 | Apply | Revert | Context Help | Snippets

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
72	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1 row(s) affected	0.016 sec
73	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1 row(s) affected	0.000 sec
74	01:52:08	COMMIT	0 row(s) affected	0.000 sec
75	01:52:08	desc SHIPMENT	3 row(s) returned	0.000 sec / 0.000 sec
76	01:52:08	SELECT 'FROM SHIPMENT LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
77	01:52:08	SELECT C.CNAME AS CUSTNAME, COUNT(*) AS no_of_orders, AVG(O.ord_Amt) AS AVG_ORDER_AMT FRO...	5 row(s) returned	0.000 sec / 0.000 sec
78	01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND C...	2 row(s) returned	0.000 sec / 0.000 sec
79	01:52:08	delete from ITEM where item_no=5005	1 row(s) affected	0.000 sec
80	01:52:08	select *from ITEM LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
81	01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

01:57 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS

bank

Tables

Views

Stored Procedures

Functions

insurance

Query 1

```

59 • insert into ORDERS(order_no,odate,cust_no,ord_Amt)values(120,'13-10-05',775,29000);
60 • COMMIT;
61 • desc ORDERS;
62 • SELECT *FROM ORDERS;
63 • insert into ITEM(item_no,unit_price)values(5001,503);

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

order_no	odate	cust_no	ord_Amt
111	2022-01-02	771	18000
112	2030-07-02	774	6000
113	2003-04-03	775	9000
114	2003-11-03	775	29000
115	2010-12-03	773	29000
116	2019-08-04	772	56000
117	2010-09-04	771	20000
118	2011-11-04	775	28000
119	2013-02-05	774	29000
120	"**+ in 4"	775	29000

CUSTOMER 2 Result 3 ORDERS 4 × Result 5 ITEM 6 Result 7 ORDER_ITEM 8 Apply Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
72	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1 row(s) affected	0.016 sec
73	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1 row(s) affected	0.000 sec
74	01:52:08	COMMIT	0 row(s) affected	0.000 sec
75	01:52:08	desc SHIPMENT	3 row(s) returned	0.000 sec / 0.000 sec
76	01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
77	01:52:08	SELECT C.CNAME as CUSTNAME,COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FRO...	5 row(s) returned	0.000 sec / 0.000 sec
78	01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseeno=S.warehouseeno AND C...	2 row(s) returned	0.000 sec / 0.000 sec
79	01:52:08	delete from ITEM where item_no=5005	1 row(s) affected	0.000 sec
80	01:52:08	select *from ITEM LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
81	01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

01:58 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS

bank

Tables

Views

Stored Procedures

Functions

insurance

Query 1

```

69 • desc ITEM;
70 • SELECT *FROM ITEM;
71 • insert into ORDER_ITEM(order_no,item_no,qty)values(111,5001,50);
72 • insert into ORDER_ITEM(order_no,item_no,qty)values(112,5003,20);
73 • insert into ORDER_ITEM(order_no,item_no,qty)values(113,5002,50);

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

item_no	unit_price
5001	503
5002	750
5003	150
5004	600
5005	890
111	5000

CUSTOMER 2 Result 3 ORDERS 4 × Result 5 ITEM 6 × Result 7 ORDER_ITEM 8 Apply Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
72	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1 row(s) affected	0.016 sec
73	01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1 row(s) affected	0.000 sec
74	01:52:08	COMMIT	0 row(s) affected	0.000 sec
75	01:52:08	desc SHIPMENT	3 row(s) returned	0.000 sec / 0.000 sec
76	01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
77	01:52:08	SELECT C.CNAME as CUSTNAME,COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FRO...	5 row(s) returned	0.000 sec / 0.000 sec
78	01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseeno=S.warehouseeno AND C...	2 row(s) returned	0.000 sec / 0.000 sec
79	01:52:08	delete from ITEM where item_no=5005	1 row(s) affected	0.000 sec
80	01:52:08	select *from ITEM LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
81	01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

01:58 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Query 1

```

96 • SELECT *FROM WAREHOUSE;
97 • insert into SHIPMENT(order_no,warehouseno,ship_date)values(111,1,'10-02-02');
98 • insert into SHIPMENT(order_no,warehouseno,ship_date)values(112,5,'10-09-02');
99 • insert into SHIPMENT(order_no,warehouseno,ship_date)values(113,8,'10-02-03');
100 • insert into SHIPMENT(order_no,warehouseno,ship_date)values(114,3,'10-12-03');

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result 3 ORDERS 4 Result 5 ITEM 6 Result 7 ORDER_ITEM 8 Result 9 W Apply Revert Context Help Snippets

```

warehouseno	city
1	DELHI
2	BOMBAY
3	CHENNAI
4	BANGALORE
5	BANGALORE
6	DELHI
7	BOMBAY
8	CHENNAI
9	DELHI

Administration Schemas Information

No object selected

Action Output

Time	Action	Message	Duration / Fetch
72 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1row(s) affected	0.016 sec
73 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1row(s) affected	0.000 sec
74 01:52:08	COMMIT	0row(s) affected	0.000 sec
75 01:52:08	desc SHIPMENT	3row(s) returned	0.000 sec / 0.000 sec
76 01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec
77 01:52:08	SELECT C.CNAME AS CUSTNAME, COUNT(*) AS no_of_orders, AVG(O.ord_Amt) AS AVG_ORDER_AMT FROM CUSTOMER C JOIN ORDER O ON C.CID = O.CID GROUP BY C.CID	5row(s) returned	0.000 sec / 0.000 sec
78 01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND S.order_no=5005	2row(s) returned	0.000 sec / 0.000 sec
79 01:52:08	delete from ITEM where item_no=5005	1row(s) affected	0.000 sec
80 01:52:08	select *from ITEM LIMIT 0, 1000	4row(s) returned	0.000 sec / 0.000 sec
81 01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

02:00 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Query 1

```

106 • insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,'21-12-05');
107 • COMMIT;
108 • desc SHIPMENT;
109 • SELECT *FROM SHIPMENT;
110 • /*Produce a listing: CUSTNAME, #oforders, AVG_ORDER_AMT, where the middle column

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result 3 ORDERS 4 Result 5 ITEM 6 Result 7 ORDER_ITEM 8 Result 9 W Read Only | Result : Context Help Snippets

```

order_no	item_no	qty
111	5001	50
112	5003	20
113	5002	50
114	5005	60
115	5004	90
116	5001	10
117	5003	80
118	5005	50
119	5002	10
120	5004	10

Administration Schemas Information

No object selected

Action Output

Time	Action	Message	Duration / Fetch
72 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1row(s) affected	0.016 sec
73 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1row(s) affected	0.000 sec
74 01:52:08	COMMIT	0row(s) affected	0.000 sec
75 01:52:08	desc SHIPMENT	3row(s) returned	0.000 sec / 0.000 sec
76 01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec
77 01:52:08	SELECT C.CNAME AS CUSTNAME, COUNT(*) AS no_of_orders, AVG(O.ord_Amt) AS AVG_ORDER_AMT FROM CUSTOMER C JOIN ORDER O ON C.CID = O.CID GROUP BY C.CID	5row(s) returned	0.000 sec / 0.000 sec
78 01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND S.order_no=5005	2row(s) returned	0.000 sec / 0.000 sec
79 01:52:08	delete from ITEM where item_no=5005	1row(s) affected	0.000 sec
80 01:52:08	select *from ITEM LIMIT 0, 1000	4row(s) returned	0.000 sec / 0.000 sec
81 01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

02:01 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigators: Schemas

Query 1

```

110 /*Produce a listing: CUSTNAME, #oforders, AVG_ORDER_AMT, where the middle column
111   is the total numbers of orders by the customer and the last column is the average order
112   SELECT C.CNAME as CUSTNAME, COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FROM
113   /*List the order# for orders that were shipped from all warehouses that the company has
114   SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=
115   /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116   delete from ITEM where item_no=5005;

```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

CUSTNAME	no_of_orders	AVG_ORDER_AMT
PUSHPAK	2	19000.0000
SUMAN	1	56000.0000
SOURAV	1	29000.0000
LAILA	2	17500.0000
FAIZAL	4	24000.0000

Administration Schemas

Information: No object selected

Output: Action Output

- # Time Action Message Duration / Fetch
- 73 02:38:07 insert into SHIPMENT(order_no,warehouse_no,ship_date)values(119,7,30-04-05) 1row(s) affected 0.015 sec
- 74 02:38:07 insert into SHIPMENT(order_no,warehouse_no,ship_date)values(120,6,21-12-05) 1row(s) affected 0.000 sec
- 75 02:38:07 COMMIT 0row(s) affected 0.000 sec
- 76 02:38:07 desc SHIPMENT 3row(s) returned 0.000 sec / 0.000 sec
- 77 02:38:07 SELECT *FROM SHIPMENT LIMIT 0, 1000 10row(s) returned 0.000 sec / 0.000 sec
- 78 02:38:07 SELECT C.CNAME as CUSTNAME, COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FROM
 CUSTNAME C,ITEM O WHERE C.CNAME=O.CUSTNAME AND O.item_no=5005 5row(s) returned 0.000 sec / 0.000 sec
- 79 02:38:07 SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=
 'MUMBAI' 2row(s) returned 0.000 sec / 0.000 sec
- 80 02:38:07 delete from ITEM where item_no=5005 1row(s) affected 0.000 sec
- 81 02:38:07 select *from ITEM LIMIT 0, 1000 4row(s) returned 0.000 sec / 0.000 sec
- 82 02:38:07 select *from ORDER_ITEM LIMIT 0, 1000 10row(s) returned 0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigators: Schemas

Query 1

```

113 /*List the order# for orders that were shipped from all warehouses that the company has
114 SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=
115 /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116 delete from ITEM where item_no=5005;
117 select *from ITEM;
118 select *from ORDER_ITEM;

```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

Field	Type	Null	Key	Default	Extra
order_no	int	YES	MUL		
warehouse_no	int	YES	MUL		
ship_date	date	YES			

Administration Schemas

Information: No object selected

Output: Action Output

- # Time Action Message Duration / Fetch
- 73 02:38:07 insert into SHIPMENT(order_no,warehouse_no,ship_date)values(119,7,30-04-05) 1row(s) affected 0.015 sec
- 74 02:38:07 insert into SHIPMENT(order_no,warehouse_no,ship_date)values(120,6,21-12-05) 1row(s) affected 0.000 sec
- 75 02:38:07 COMMIT 0row(s) affected 0.000 sec
- 76 02:38:07 desc SHIPMENT 3row(s) returned 0.000 sec / 0.000 sec
- 77 02:38:07 SELECT *FROM SHIPMENT LIMIT 0, 1000 10row(s) returned 0.000 sec / 0.000 sec
- 78 02:38:07 SELECT C.CNAME as CUSTNAME, COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FROM
 CUSTNAME C,ITEM O WHERE C.CNAME=O.CUSTNAME AND O.item_no=5005 5row(s) returned 0.000 sec / 0.000 sec
- 79 02:38:07 SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=
 'MUMBAI' 2row(s) returned 0.000 sec / 0.000 sec
- 80 02:38:07 delete from ITEM where item_no=5005 1row(s) affected 0.000 sec
- 81 02:38:07 select *from ITEM LIMIT 0, 1000 4row(s) returned 0.000 sec / 0.000 sec
- 82 02:38:07 select *from ORDER_ITEM LIMIT 0, 1000 10row(s) returned 0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

order processing X

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Schemas: bank, insurance

Query 1 X

```

110 /*Produce a listing: CUSTNAME, #oforders, AVG_ORDER_AMT, where the middle column
111   is the total numbers of orders by the customer and the last column is the average order
112   SELECT C.CNAME as CUSTNAME, COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FROM
113   /*List the order# for orders that were shipped from all warehouses that the company has i
114   SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=
115   /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116   delete from ITEM where item_no=5005;
  
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

order_no

112
117

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information: No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
73	02:38:07	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1 row(s) affected	0.015 sec
74	02:38:07	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1 row(s) affected	0.000 sec
75	02:38:07	COMMIT	0 row(s) affected	0.000 sec
76	02:38:07	desc SHIPMENT	3 row(s) returned	0.000 sec / 0.000 sec
77	02:38:07	SELECT *FROM SHIPMENT LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
78	02:38:07	SELECT C.CNAME as CUSTNAME, COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FROM	5 row(s) returned	0.000 sec / 0.000 sec
79	02:38:07	/*List the order# for orders that were shipped from all warehouses that the company has i	2 row(s) returned	0.000 sec / 0.000 sec
80	02:38:07	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY=	1 row(s) affected	0.000 sec
81	02:38:07	delete from ITEM where item_no=5005	4 row(s) returned	0.000 sec / 0.000 sec
82	02:38:07	select *from ITEM LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

02:53 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS: bank, insurance

Query 1

```

114 • SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY='^
115 /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116 • delete from ITEM where item_no=5005;
117 • select *from ITEM;
118 • select *from ORDER_ITEM;

```

Result Grid

item_no	unit_price
5001	503
5002	750
5003	150
5004	600
5005	890
5006	666

Action Output

Time	Action	Message	Duration / Fetch
72 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1row(s) affected	0.016 sec
73 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1row(s) affected	0.000 sec
74 01:52:08	COMMIT	0row(s) affected	0.000 sec
75 01:52:08	desc SHIPMENT	3row(s) returned	0.000 sec / 0.000 sec
76 01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec
77 01:52:08	SELECT C.CNAME as CUSTNAME,COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FRO...	5row(s) returned	0.000 sec / 0.000 sec
78 01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND C...	2row(s) returned	0.000 sec / 0.000 sec
79 01:52:08	delete from ITEM where item_no=5005	1row(s) affected	0.000 sec
80 01:52:08	select *from ITEM LIMIT 0, 1000	4row(s) returned	0.000 sec / 0.000 sec
81 01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Search

02:06 12-05-2021

MySQL Workbench

order processing

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS: bank, insurance

Query 1

```

114 • SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND CITY='^
115 /*Demonstrate how you delete item# 10 from the ITEM table and make that field null in the
116 • delete from ITEM where item_no=5005;
117 • select *from ITEM;
118 • select *from ORDER_ITEM;

```

Result Grid

order_no	item_no	qty
111	5001	50
112	5003	20
113	5002	50
114	5005	60
115	5004	90
116	5001	10
117	5003	80
118	5005	50
119	5002	10
120	5004	10

Action Output

Time	Action	Message	Duration / Fetch
72 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(119,7,30-04-05)	1row(s) affected	0.016 sec
73 01:52:08	insert into SHIPMENT(order_no,warehouseno,ship_date)values(120,6,21-12-05)	1row(s) affected	0.000 sec
74 01:52:08	COMMIT	0row(s) affected	0.000 sec
75 01:52:08	desc SHIPMENT	3row(s) returned	0.000 sec / 0.000 sec
76 01:52:08	SELECT *FROM SHIPMENT LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec
77 01:52:08	SELECT C.CNAME as CUSTNAME,COUNT(*) as no_of_orders,AVG(O.ord_Amt) as AVG_ORDER_AMT FRO...	5row(s) returned	0.000 sec / 0.000 sec
78 01:52:08	SELECT order_no FROM WAREHOUSE W, SHIPMENT S WHERE W.warehouseno=S.warehouseno AND C...	2row(s) returned	0.000 sec / 0.000 sec
79 01:52:08	delete from ITEM where item_no=5005	1row(s) affected	0.000 sec
80 01:52:08	select *from ITEM LIMIT 0, 1000	4row(s) returned	0.000 sec / 0.000 sec
81 01:52:08	select *from ORDER_ITEM LIMIT 0, 1000	10row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Search

02:06 12-05-2021

LAB-4 BANKING DATABASE

```
create database banking;
use banking;

create table branch(
    branch_name varchar(30) primary key,
    branch_city varchar(30),
    assets real);

create table accounts(
    accno int primary key,
    branch_name varchar(30),
    balance real,
    foreign key (branch_name) references
    branch(branch_name) on delete cascade on
    update cascade);

create table customer(
    customer_name varchar(30) primary key,
    customer_street varchar(20),
    customer_city varchar(20));
```

```
create table depositor(
    customer_name varchar(30),
    accno int,
    primary key(customer_name ,accno),
    foreign key (accno) references
    accounts(accno) on delete cascade on
    update cascade,
    foreign key (customer_name) references
    customer(customer_name) on delete cascade
    on update
    cascade);
```

```
create table loan(
    loan_number int primary key,
    branch_name varchar(30),
    amount real,
    foreign key (branch_name) references
    branch(branch_name)
);
```

```
create table borrower (
    customer_name varchar(30),
```

```
loan_number int,  
primary key(customer_name, loan_number),  
foreign key (customer_name) references  
customer(customer_name) on delete cascade  
on update cascade,  
foreign key (loan_number) references  
loan(loan_number) on delete cascade on  
update cascade);  
show tables;  
insert into  
branch(branch_name,branch_city,assets)  
values  
( 'A','Bangalore',190000),  
( 'B','Bangalore',200000),  
( 'C','Delhi',235344),  
( 'D','Chennai',1050560),  
( 'E','Chennai',678909);  
select *from branch;
```

```
insert into  
accounts(accno,branch_name,balance)  
VALUES  
(1001,'A',10000),  
(1002,'B',5000),  
(1003,'C',7500),  
(1004,'D',50000),  
(1005,'D',75000),
```

```
(1006, 'E', 560),  
(1007, "B", 500),  
(1008, "B", 1500);  
select *from accounts;
```

```
insert into
customer(customer_name, customer_street, cu
stomer_city) VALUES
("Ravi", "Dasarahalli", "Bangalore"),
("Shyam", "Indiranagar", "Delhi"),
("Seema", "Vasantnagar", "Chennai"),
("Arpita", "Church Street", "Bangalore"),
("Vinay", "MG Road", "Chennai");
select *from customer;
```

```
insert into  
depositor(customer_name,accno) VALUES  
("Ravi",1001),  
("Ravi",1002),  
("Shyam",1003),  
("Seema",1004),  
("Seema",1005),  
("Arpita",1006),  
("Vinay",1007),  
("Vinay",1008);  
select *from depositor;
```

```
insert into
loan(loan_number,branch_name,amount)
VALUES
(001,'A',10000),
(002,'B',25000),
(003,'B',250000),
(004,'C',5000),
(005,'E',90000);
select *from loan;
```

```
insert into
borrower(customer_name,loan_number)
VALUES
("Arpita",001),
("Ravi",002),
("Arpita",003),
("Shyam",004),
("Vinay",005);
select *from borrower;
```

```
/*iii. Find all the customers who have at
least two accounts at the Main branch */
```

```
select customer_name from depositor
join accounts on depositor.accno =
accounts.accno where accounts.branch_name
= "D"
group by depositor.customer_name having
count(depositor.customer_name) >=2;
```

```
/* iv. Find all the customers who have an
account at all the branches located in a
specific city.*/
```

```
select customer_name from depositor
join accounts on accounts.accno =
depositor.accno
join branch on branch.branch_name =
accounts.branch_name
where branch.branch_city = "Bangalore"
GROUP BY depositor.customer_name
having count(DISTINCT branch.branch_name)
= (SELECT COUNT(branch_name)
FROM branch
WHERE branch_city = 'Bangalore');
```

```
/*v. Demonstrate how you delete all
account tuples at every branch located in
a specific city.*/
```

```
delete from accounts where branch_name in  
(select branch_name from branch where  
branch_city="Delhi");  
select *from accounts;
```

Output- lab-4

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS Filter objects order_processing

Query 1 SQLAdditions

```
36 customer_name varchar(30),
37 loan_number int,
38 primary key (customer_name, loan_number),
39 foreign key (customer_name) references customer(customer_name) on delete cascade on update cascade
40 foreign key (loan_number) references loan(loan_number) on delete cascade on update cascade;
41 • show tables;
42 • insert into branch(branch_name,branch_city,assets) values
43 ('A','Bangalore',190000);
```

Result Grid Filter Rows Export Wrap Cell Content Result Grid Form Editor

Tables_in_banking

- accounts
- borrower
- branch
- customer
- depositor
- loan

No object selected

Result 1 branch 2 accounts 3 customer 4 depositor5 loan 6 borrower 7 Result 8 Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Apita",001),("Ravi",002),("Apita",003),("Shyam",004)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor.acctno = accounts.acctno where accounts.branch_name = 'Delhi'	1 row(s) returned	0.000 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts.acctno = depositor.acctno join branch on branch.branch_name = 'Delhi'	1 row(s) returned	0.015 sec / 0.000 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.016 sec
26	00:08:01	select *from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS Filter objects order_processing

Query 1 SQLAdditions

```
47 ('E','Chennai',678909);
48 • select *from branch;
```

Result Grid Filter Rows Export/Import Wrap Cell Content Result Grid Form Editor

branch_name branch_city assets

branch_name	branch_city	assets
A	Bangalore	190000
B	Bangalore	200000
C	Delhi	235344
D	Chennai	1050560
E	Chennai	678909
total	total	1050560

No object selected

Result 1 branch 2 accounts 3 customer 4 depositor5 loan 6 borrower 7 Result 8 Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Apita",001),("Ravi",002),("Apita",003),("Shyam",004)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor.acctno = accounts.acctno where accounts.branch_name = 'Delhi'	1 row(s) returned	0.000 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts.acctno = depositor.acctno join branch on branch.branch_name = 'Delhi'	1 row(s) returned	0.015 sec / 0.000 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.016 sec
26	00:08:01	select *from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Output- lab-4

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS Filter objects order_processing

Query 1 SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
63 ("Shyam","Indiranagar","Delhi"),
64 ("Seema","Vasantnagar","Chennai"),
65 ("Arpita","Church Street","Bangalore"),
66 ("Vinay","MG Road","Chennai")
67 • select *from customer;
68
69 • insert into depositor(customer_name,accno) VALUES
70 ("Ravi",1001),
71
72
73
74
75
76
77
78 • select *from depositor;
```

Result Grid

customer_name	customer_street	customer_city
Arpita	Church Street	Bangalore
Ravi	Dasarahalli	Bangalore
Seema	Vasantnagar	Chennai
Shyam	Indiranagar	Delhi
Vinay	MG Road	Chennai
NULL	NULL	NULL

Administration Schemas Information

No object selected

Object Info Session

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004),("Seema",005),("Vinay",006),("Ravi",007),("Vinay",008)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor accno = accounts accno where accounts branch_name = "Delhi"	1 row(s) returned	0.015 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts accno = depositor accno join branch on branch.branch_name = "Delhi"	1 row(s) returned	0.016 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.016 sec
26	00:08:01	select from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS Filter objects order_processing

Query 1 SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
74 ("Seema",1005),
75 ("Arpita",1006),
76 ("Vinay",1007),
77 ("Vinay",1008);
78 • select *from depositor;
79
80
81 • insert into loan(loan_number,branch_name,amount) VALUES
```

Result Grid

customer_name	accno
Ravi	1001
Ravi	1002
Shyam	1003
Seema	1004
Seema	1005
Arpita	1006
Vinay	1007
Vinay	1008
NULL	NULL

Administration Schemas Information

No object selected

Object Info Session

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004),("Seema",005),("Vinay",006),("Ravi",007),("Vinay",008)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor accno = accounts accno where accounts branch_name = "Delhi"	1 row(s) returned	0.015 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts accno = depositor accno join branch on branch.branch_name = "Delhi"	1 row(s) returned	0.016 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.016 sec
26	00:08:01	select from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Output- lab-4

The screenshot shows the MySQL Workbench interface with a query editor and results grid.

Query Editor:

```
83     (002,'B',25000),
84     (003,'B',25000),
85     (004,'C',5000),
86     (005,'E',90000);
87 •   select *from loan;
88
89 •   insert into borrower(customer_name,loan_number) VALUES
90     ("Arpita",001),
```

Result Grid:

loan_number	branch_name	amount
1	A	10000
2	B	25000
3	B	25000
4	C	5000
5	E	90000
	NULL	NULL

Action Output:

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select *from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositoracco = accountsacco where accounts branch... 24 00:08:01 select customer_name from depositor join accounts on accountsacco = depositoracco join branch on branch.br...	1 row(s) returned	0.000 sec / 0.000 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.015 sec
26	00:08:01	select *from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Output- lab-4

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Query 1

```
92 ("Arpita",003),  
93 ("Shyam",004),  
94 ("Vinay",005);  
95 • select * from borrower;  
96  
97 /*iii. Find all the customers who have at least two accounts at the Main branch */  
98  
99 • select customer_name from depositor;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

customer_name
Seema

Administration Schemas Information

No object selected

1 branch 2 accounts 3 customer 4 depositor 5 loan 6 borrower 7 Result 8 x Read Only ints 10 Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select * from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004),("Vinay",005);	5 rows(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select * from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor.acco_no = accounts.acco_no where accounts.branch_name = 'Delhi'	1 row(s) returned	0.015 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts.acco_no = depositor.acco_no join branch on branch.branch_name = 'Delhi'	1 row(s) returned	0.016 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city='Delhi')	1 row(s) affected	0.016 sec
26	00:08:01	select * from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

banking

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Query 1

```
108 having count(DISTINCT branch.branch_name) = (SELECT COUNT(branch_name)  
109 FROM branch  
110 WHERE branch_city = 'Bangalore');  
111  
112 /*v. Demonstrate how you delete all account tuples at every branch located in a specific city.  
113 delete from accounts where branch_name in  
114 (select branch_name from branch where branch_city='Delhi');  
115  
116 • select * from accounts;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

customer_name
Ravi

Administration Schemas Information

No object selected

1 branch 2 accounts 3 customer 4 depositor 5 loan 6 borrower 7 Result 8 x Read Only ints 10 Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select * from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004),("Vinay",005);	5 rows(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select * from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor.acco_no = accounts.acco_no where accounts.branch_name = 'Delhi'	1 row(s) returned	0.015 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on accounts.acco_no = depositor.acco_no join branch on branch.branch_name = 'Delhi'	1 row(s) returned	0.016 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city='Delhi')	1 row(s) affected	0.016 sec
26	00:08:01	select * from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Output- lab-4

The screenshot shows the MySQL Workbench interface with a query editor and results grid.

Query Editor:

```
92 ("Arpita",003),  
93 ("Shyam",004),  
94 ("Vinay",005);  
95 • select *from borrower;  
96  
97 /*iii. Find all the customers who have at least two accounts at the Main branch */  
98  
99 • select customer_name from depositor
```

Results Grid:

customer_name	loan_number
Arpita	1
Ravi	2
Arpita	3
Shyam	4
Vinay	5
NULL	NULL

Action Output:

#	Time	Action	Message	Duration / Fetch
20	00:08:01	select *from loan LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
21	00:08:01	insert into borrower(customer_name,loan_number) VALUES ("Arpita",001),("Ravi",002),("Arpita",003),("Shyam",004),("Vinay",005);	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
22	00:08:01	select *from borrower LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	00:08:01	select customer_name from depositor join accounts on depositor.acno = accounts.acno where accounts.branch_name = "Main Branch"	1 row(s) returned	0.000 sec / 0.000 sec
24	00:08:01	select customer_name from depositor join accounts on depositor.acno = accounts.acno join branch on branch.br_id = depositor.branch_id	1 row(s) returned	0.015 sec / 0.000 sec
25	00:08:01	delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi")	1 row(s) affected	0.016 sec
26	00:08:01	select *from accounts LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

LAB-5 STUDENT dddd dddENROLLMENT

```
CREATE DATABASE  
STUDENTENROLLMENT;
```

```
USE STUDENTENROLLMENT;
```

```
CREATE TABLE STUDENT (  
    REG_NO VARCHAR(30),  
    SNAME VARCHAR(30),  
    MAJOR VARCHAR(30),  
    BDATE DATE,  
    PRIMARY KEY (REG_NO)  
) ;
```

```
CREATE TABLE COURSE (
    COURSE_ID INT,
    CNAME VARCHAR(30),
    DEPT VARCHAR(30),
    PRIMARY KEY(COURSE_ID)
);
```

```
CREATE TABLE ENROLL (
    REG_NO VARCHAR(30),
    COURSE_ID INT,
    SEM INT,
    MARKS INT,
    FOREIGN KEY(REG_NO) REFERENCES
    STUDENT(REG_NO) ON DELETE CASCADE ON UPDATE
    CASCADE,
    FOREIGN KEY(COURSE_ID) REFERENCES
    COURSE(COURSE_ID) ON DELETE CASCADE ON
    UPDATE CASCADE
);
```

```
CREATE TABLE BOOK_ADOPTION (
    COURSE_ID INT,
```

```
SEM INT,  
BOOK_ISBN INT,  
PRIMARY KEY(BOOK_ISBN),  
FOREIGN KEY(COURSE_ID) REFERENCES  
COURSE(COURSE_ID) ON DELETE CASCADE ON  
UPDATE CASCADE  
);  
  
CREATE TABLE TEXT(  
BOOK_ISBN INT,  
BOOK_TITLE VARCHAR(30),  
PUBLISHER VARCHAR(30),  
AUTHOR VARCHAR(30),  
FOREIGN KEY(BOOK_ISBN) REFERENCES  
BOOK_ADOPTION(BOOK_ISBN) ON DELETE CASCADE  
ON UPDATE CASCADE  
);  
show tables;  
INSERT INTO STUDENT(REG_NO, SNAME, MAJOR,  
BDATE) VALUES ('CS01', 'RAM', 'DS',  
'1986-03-12');  
INSERT INTO STUDENT(REG_NO, SNAME, MAJOR,  
BDATE) VALUES ('IS02', 'SMITH', 'USP',  
'1987-12-23');
```

```
INSERT INTO STUDENT(REG_NO, SNAME, MAJOR,  
BDATE) VALUES ('EC03', 'AHMED', 'SNS',  
'1985-04-17');  
  
INSERT INTO STUDENT(REG_NO, SNAME, MAJOR,  
BDATE) VALUES ('CS03', 'SNEHA', 'DBMS',  
'1987-01-01');  
  
INSERT INTO STUDENT(REG_NO, SNAME, MAJOR,  
BDATE) VALUES ('TC05', 'AKHILA', 'EC',  
'1986-10-06');  
  
SELECT * FROM STUDENT;
```

```
INSERT INTO COURSE(COURSE_ID, CNAME, DEPT)  
VALUES (11, 'DS', 'CS');  
  
INSERT INTO COURSE(COURSE_ID, CNAME, DEPT)  
VALUES (22, 'USP', 'IS');  
  
INSERT INTO COURSE(COURSE_ID, CNAME, DEPT)  
VALUES (33, 'SNS', 'EC');  
  
INSERT INTO COURSE(COURSE_ID, CNAME, DEPT)  
VALUES (44, 'DBMS', 'CS');  
  
INSERT INTO COURSE(COURSE_ID, CNAME, DEPT)  
VALUES (55, 'EC', 'TC');  
  
SELECT * FROM COURSE;
```

```
INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM,  
MARKS) VALUES ('CS01', 11, 4, 85);  
  
INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM,  
MARKS) VALUES ('IS02', 22, 6, 80);
```

```
INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM,
MARKS) VALUES ('EC03', 33, 2, 80);

INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM,
MARKS) VALUES ('CS03', 44, 6, 75);

INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM,
MARKS) VALUES ('TC05', 55, 2, 8);

SELECT * FROM ENROLL;
```

```
INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (11,4,1);

INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (11,4,2);

INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (44,6,3);

INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (44,6,4);

INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (55,2,5);

INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (22,6,6);
```

```
INSERT INTO
BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN)
VALUES (55,2,7);
SELECT * FROM BOOK_ADOPTION;

INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (1, 'DS and C',
'Princeton', 'Padma Reddy');
INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (2, 'Fundamentals
of DS', 'Princeton', 'Godse');
INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (3, 'Fundamentals
of DBMS', 'Princeton', 'Navathe');
INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (4, 'SQL',
'Princeton', 'Foley');
INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (5, 'Electronic
circuits', 'TMH', 'Elmasri');
INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE,
PUBLISHER, AUTHOR) VALUES (6, 'Adv unix
prog', 'TMH', 'Stevens');
SELECT * FROM TEXT;
```

```
-- Demonstrate how you add a new text book  
to the database and make this book be  
adopted by some department.
```

```
INSERT INTO TEXT VALUES(7, "TREES &  
GRAPHS", "PRINCETON", "SADGE");  
INSERT INTO BOOK_ADOPTION VALUES(11, 4, 8);
```

```
SELECT * FROM BOOK_ADOPTION;
```

```
SELECT * FROM TEXT;
```

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

```
SELECT C.COURSE_ID, T.BOOK_ISBN, T.BOOK_TITLE  
FROM TEXT T, COURSE C, BOOK_ADOPTION B WHERE  
T.BOOK_ISBN=B.BOOK_ISBN AND  
B.COURSE_ID=C.COURSE_ID AND C.DEPT="CS" AND  
(SELECT COUNT(B.BOOK_ISBN) FROM  
BOOK_ADOPTION B WHERE  
C.COURSE_ID=B.COURSE_ID)>=2 ORDER BY  
T.BOOK_TITLE;
```

```
-- List any department that has all its  
adopted books published by a specific  
publisher.  
  
SELECT DISTINCT C.DEPT  
  
FROM COURSE C  
  
WHERE C.DEPT IN  
  
( SELECT C.DEPT  
  
FROM COURSE C,BOOK_ADOPTION B,TEXT T  
  
WHERE C.COURSE_ID=B.COURSE_ID  
AND T.BOOK_ISBN=B.BOOK_ISBN  
AND T.PUBLISHER='Princeton')  
  
AND C.DEPT NOT IN  
  
(SELECT C.DEPT  
  
FROM COURSE C,BOOK_ADOPTION B,TEXT T  
  
WHERE C.COURSE_ID=B.COURSE_ID  
AND T.BOOK_ISBN=B.BOOK_ISBN  
AND T.PUBLISHER != 'Princeton');
```

Output lab-5

MySQL Workbench

student

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS Filter objects banking order_processing

Query 1

```
43     AUTHOR VARCHAR(30),
44     FOREIGN KEY(BOOK_ISBN) REFERENCES BOOK_ADOPTION(BOOK_ISBN) ON DELETE CASCADE ON UPDATE CASCADE
45   );
46
47 • INSERT INTO STUDENT(REG_NO, SNAME, MAJOR, BOATE) VALUES ('CS01', 'RAH', 'DS', '1986-03-12');
48 INSERT INTO STUDENT(REG_NO, SNAME, MAJOR, BOATE) VALUES ('TS02', 'SHITH', 'USP', '1987-12-23');
49 INSERT INTO STUDENT(REG_NO, SNAME, MAJOR, BOATE) VALUES ('EC03', 'AHMED', 'SNS', '1985-04-17');
50 INSERT INTO STUDENT(REG_NO, SNAME, MAJOR, BOATE) VALUES ('CS03', 'SNEHA', 'DBMS', '1987-01-01');
```

Result Grid | Filter Rows | Export | Import | Wrap Cell Content | Result Grid | Form Editor

REG_NO	SNAME	MAJOR	BOATE
CS01	RAM	DS	1986-03-12
CS03	SNEHA	DBMS	1987-01-01
EC03	AHMED	SNS	1985-04-17
TS02	SMITH	USP	1987-12-23
TC05	AKHLA	EC	1986-10-06

No object selected

STUDENT 2 COURSE 3 ENROLL 4 BOOK_ADOPTION 5 TEXT 6 BOOK_ADOPTION 7 T Apply Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
42	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
43	10:50:16	INSERT INTO TEXT VALUES(7, "TREES & GRAPHS", "PRINCETON", "SADGE")	1 row(s) affected	0.000 sec
44	10:50:16	INSERT INTO BOOK_ADOPTION VALUES(11, 4, 8)	1 row(s) affected	0.000 sec
45	10:50:16	SELECT * FROM BOOK_ADOPTION LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec
46	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
47	10:50:16	SELECT COURSE_ID,BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE C.COURSE_ID = B.COURSE_ID AND C.BOOK_ISBN = B.BOOK_ISBN	4 row(s) returned	0.000 sec / 0.000 sec
48	10:50:16	SELECT DISTINCT C.DEPT FROM COURSE C WHERE C.DEPT IN (SELECT C.DEPT FROM COURSE C WHERE C.COURSE_ID = 1)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

23°C Partly cloudy 11:28 ENG 26-05-2021

MySQL Workbench

student

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS Filter objects banking order_processing

Query 1

```
65   INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM, MARKS) VALUES ('TC05', 55, 2, 8);
66   SELECT * FROM ENROLL;
67
68   INSERT INTO BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN) VALUES (11,4,1);
69   INSERT INTO BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN) VALUES (11,4,2);
70   INSERT INTO BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN) VALUES (44,6,3);
71   INSERT INTO BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN) VALUES (44,6,4);
72   INSERT INTO BOOK_ADOPTION(COURSE_ID,SEM,BOOK_ISBN) VALUES (55,2,5);
```

Result Grid | Filter Rows | Export | Import | Wrap Cell Content | Result Grid | Form Editor

REG_NO	COURSE_ID	SEM	MARKS
CS01	11	4	85
TS02	22	6	80
EC03	33	2	80
CS03	44	6	75
TC05	55	2	8

No object selected

COURSE 3 ENROLL 4 BOOK_ADOPTION 5 TEXT 6 BOOK_ADOPTION 7 TEXT 8 Result 9 Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
42	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
43	10:50:16	INSERT INTO TEXT VALUES(7, "TREES & GRAPHS", "PRINCETON", "SADGE")	1 row(s) affected	0.000 sec
44	10:50:16	INSERT INTO BOOK_ADOPTION VALUES(11, 4, 8)	1 row(s) affected	0.000 sec
45	10:50:16	SELECT * FROM BOOK_ADOPTION LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec
46	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
47	10:50:16	SELECT C.COURSE_ID,T.BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE C.COURSE_ID = B.COURSE_ID AND C.BOOK_ISBN = B.BOOK_ISBN	4 row(s) returned	0.000 sec / 0.000 sec
48	10:50:16	SELECT DISTINCT C.DEPT FROM COURSE C WHERE C.DEPT IN (SELECT C.DEPT FROM COURSE C WHERE C.COURSE_ID = 1)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Output lab-5

MySQL Workbench

student

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS Filter objects banking order_processing

Query 1

```
76
77   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (1, 'DS and C', 'Princeton', 'Padma Reddy')
78 •   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (2, 'Fundamentals of DS', 'Princeton', 'Gosde')
79   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (3, 'Fundamentals of DBMS', 'Princeton', 'Navathe')
80 •   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (4, 'SQL', 'Princeton', 'Foley')
81   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (5, 'Electronic circuits', 'TMH', 'Elmasri')
82   INSERT INTO TEXT(BOOK_ISBN, BOOK_TITLE, PUBLISHER, AUTHOR) VALUES (6, 'Adv unix prog', 'TMH', 'Stevens')
83   SELECT * FROM TEXT
```

Result Grid

BOOK_ISBN	BOOK_TITLE	PUBLISHER	AUTHOR
1	DS and C	Princeton	Padma Reddy
2	Fundamentals of DS	Princeton	Gosde
3	Fundamentals of DBMS	Princeton	Navathe
4	SQL	Princeton	Foley
5	Electronic circuits	TMH	Elmasri
6	Adv unix prog	TMH	Stevens

Administration Schemas Information

No object selected

COURSE 3 ENROLL 4 BOOK_ADOPTION 5 TEXT 6 BOOK_ADOPTION 7 TEXT 8 Result 9 Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
42	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
43	10:50:16	INSERT INTO TEXT VALUES(7, "TREES & GRAPHS", "PRINCETON", "SADGE")	1 row(s) affected	0.000 sec
44	10:50:16	INSERT INTO BOOK_ADOPTION VALUES(1, 4, 8)	1 row(s) affected	0.000 sec
45	10:50:16	SELECT * FROM BOOK_ADOPTION LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec
46	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
47	10:50:16	SELECT C.COURSE_ID,T.BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE C.COURSE_ID = B.COURSE_ID AND T.BOOK_ISBN = B.BOOK_ISBN	4 row(s) returned	0.000 sec / 0.000 sec
48	10:50:16	SELECT DISTINCT C.DEPARTMENT FROM COURSE C WHERE C.DEPARTMENT IN (SELECT C.DEPARTMENT FROM COURSE C WHERE C.DEPARTMENT = 'CS' OR C.DEPARTMENT = 'EC' OR C.DEPARTMENT = 'IS' OR C.DEPARTMENT = 'DBMS' OR C.DEPARTMENT = 'TC') AND C.COURSE_ID NOT IN (SELECT C.COURSE_ID FROM BOOK_ADOPTION B WHERE B.COURSE_ID = C.COURSE_ID)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

student

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS Filter objects banking order_processing

Query 1

```
55   INSERT INTO COURSE(COURSE_ID, CNAME, DEPT) VALUES (22, 'USP', 'IS');
56   INSERT INTO COURSE(COURSE_ID, CNAME, DEPT) VALUES (33, 'SNS', 'EC');
57   INSERT INTO COURSE(COURSE_ID, CNAME, DEPT) VALUES (44, 'DBMS', 'CS');
58   INSERT INTO COURSE(COURSE_ID, CNAME, DEPT) VALUES (55, 'EC', 'TC');
59   SELECT * FROM COURSE;
60
61   INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM, MARKS) VALUES ('CS01', 11, 4, 85);
62   INSERT INTO ENROLL(REG_NO, COURSE_ID, SEM, MARKS) VALUES ('IS02', 22, 6, 80);
```

Result Grid

COURSE_ID	CNAME	DEPT
11	DS	CS
22	USP	IS
33	SNS	EC
44	DBMS	CS
55	EC	TC
56	DATA	DATA

Administration Schemas Information

No object selected

COURSE 3 ENROLL 4 BOOK_ADOPTION 5 TEXT 6 BOOK_ADOPTION 7 TEXT 8 Result 9 Apply Revert Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
42	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
43	10:50:16	INSERT INTO TEXT VALUES(7, "TREES & GRAPHS", "PRINCETON", "SADGE")	1 row(s) affected	0.000 sec
44	10:50:16	INSERT INTO BOOK_ADOPTION VALUES(1, 4, 8)	1 row(s) affected	0.000 sec
45	10:50:16	SELECT * FROM BOOK_ADOPTION LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec
46	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
47	10:50:16	SELECT C.COURSE_ID,T.BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE C.COURSE_ID = B.COURSE_ID AND T.BOOK_ISBN = B.BOOK_ISBN	4 row(s) returned	0.000 sec / 0.000 sec
48	10:50:16	SELECT DISTINCT C.DEPARTMENT FROM COURSE C WHERE C.DEPARTMENT IN (SELECT C.DEPARTMENT FROM COURSE C WHERE C.DEPARTMENT = 'CS' OR C.DEPARTMENT = 'EC' OR C.DEPARTMENT = 'IS' OR C.DEPARTMENT = 'DBMS' OR C.DEPARTMENT = 'TC') AND C.COURSE_ID NOT IN (SELECT C.COURSE_ID FROM BOOK_ADOPTION B WHERE B.COURSE_ID = C.COURSE_ID)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Output lab-5

MySQL Workbench

student X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

Query 1

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
90
91 • SELECT * FROM TEXT;
92
93 -- Produce a list of text books (include Course #, Book-ISBN, Book-title) in the alphabetical order
94 • SELECT C.COURSE_ID,T.BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE T.BOOK_ISBN=B.BOOK_ISBN AND C.COURSE_ID=B.COURSE_ID AND C.DEPT='CS' AND (SELECT COUNT(B.BOOK_ISBN) FROM BOOK_ADOPTION B WHERE C.COURSE_ID=B.COURSE_ID)>=2 ORDER BY T.BOOK_TITLE;
95
96
97
```

Result Grid

COURSE_ID	BOOK_ISBN	BOOK_TITLE
11	1	DS and C
44	3	Fundamentals of DBMS
11	2	Fundamentals of DS
44	4	SQL

No object selected

COURSE 3 ENROLL 4 BOOK_ADOPTION 5 TEXT 6 BOOK_ADOPTION 7 TEXT 8 Result 9 Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
42	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
43	10:50:16	INSERT INTO TEXT VALUES('7', 'TREES & GRAPHS', 'PRINCETON', 'SAGE')	1 row(s) affected	0.000 sec
44	10:50:16	INSERT INTO BOOK_ADOPTION VALUES(11, 4, 8)	1 row(s) affected	0.000 sec
45	10:50:16	SELECT * FROM BOOK_ADOPTION LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec
46	10:50:16	SELECT * FROM TEXT LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
47	10:50:16	SELECT C.COURSE_ID,T.BOOK_ISBN,T.BOOK_TITLE FROM TEXT T,COURSE C,BOOK_ADOPTION B WHERE C.COURSE_ID=B.COURSE_ID AND C.DEPT='CS' AND (SELECT COUNT(B.BOOK_ISBN) FROM BOOK_ADOPTION B WHERE C.COURSE_ID=B.COURSE_ID)>=2 ORDER BY T.BOOK_TITLE;	4 row(s) returned	0.000 sec / 0.000 sec
48	10:50:16	SELECT DISTINCT C.DEPT FROM COURSE C WHERE C.DEPT IN ('SELECT C.DEPT FROM COURSE C WHERE C.COURSE_ID=B.COURSE_ID AND C.DEPT='CS' AND (SELECT COUNT(B.BOOK_ISBN) FROM BOOK_ADOPTION B WHERE C.COURSE_ID=B.COURSE_ID)>=2 ORDER BY T.BOOK_TITLE;')	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search

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