

Name : Pankaj

Rollno : 18001003083

Class : CE52

Create table Student(

roll\_no Int Not NULL primary key,

name VARCHAR(30) NOT NULL,

dob Date NOT NULL,

gender VARCHAR(10) NOT NULL DEFAULT 'M',

bcode VARCHAR(4) NOT NULL,

foreign key(bcode) references Branch(bcode)

);

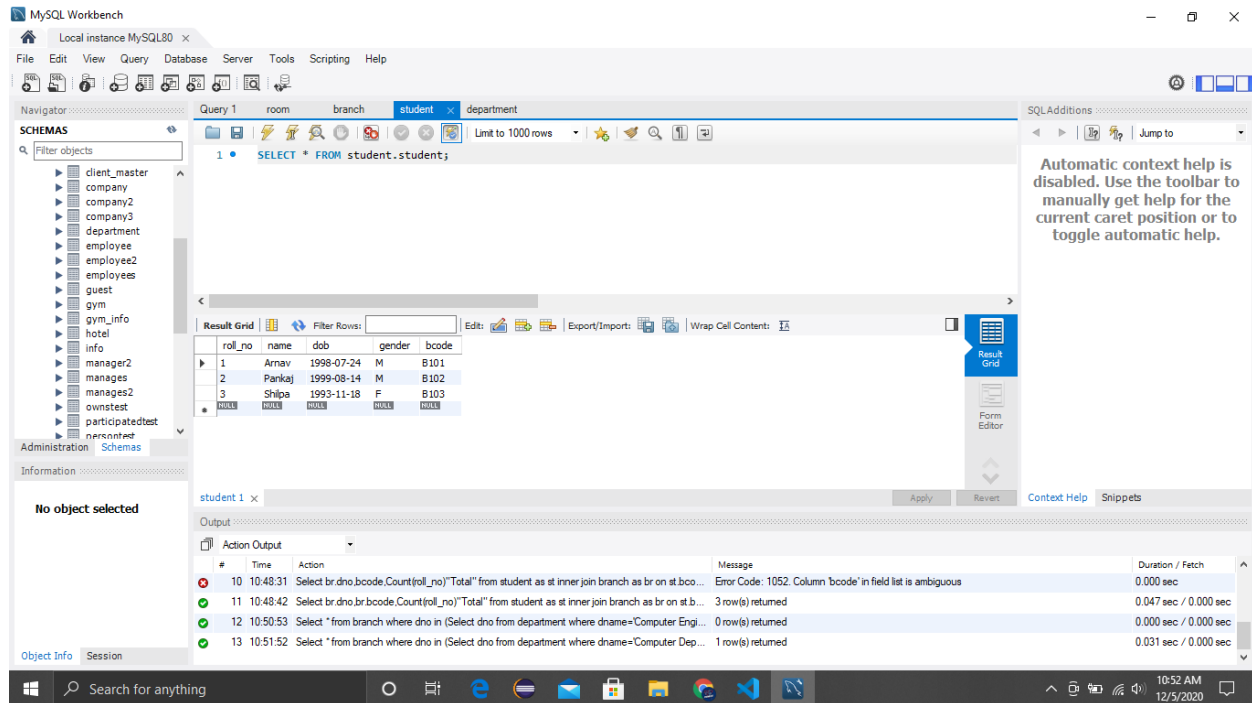
INSERT INTO Student(roll\_no,name,dob,gender,bcode)

VALUES

(1,'Arnav','1998-07-24','M','B101'),

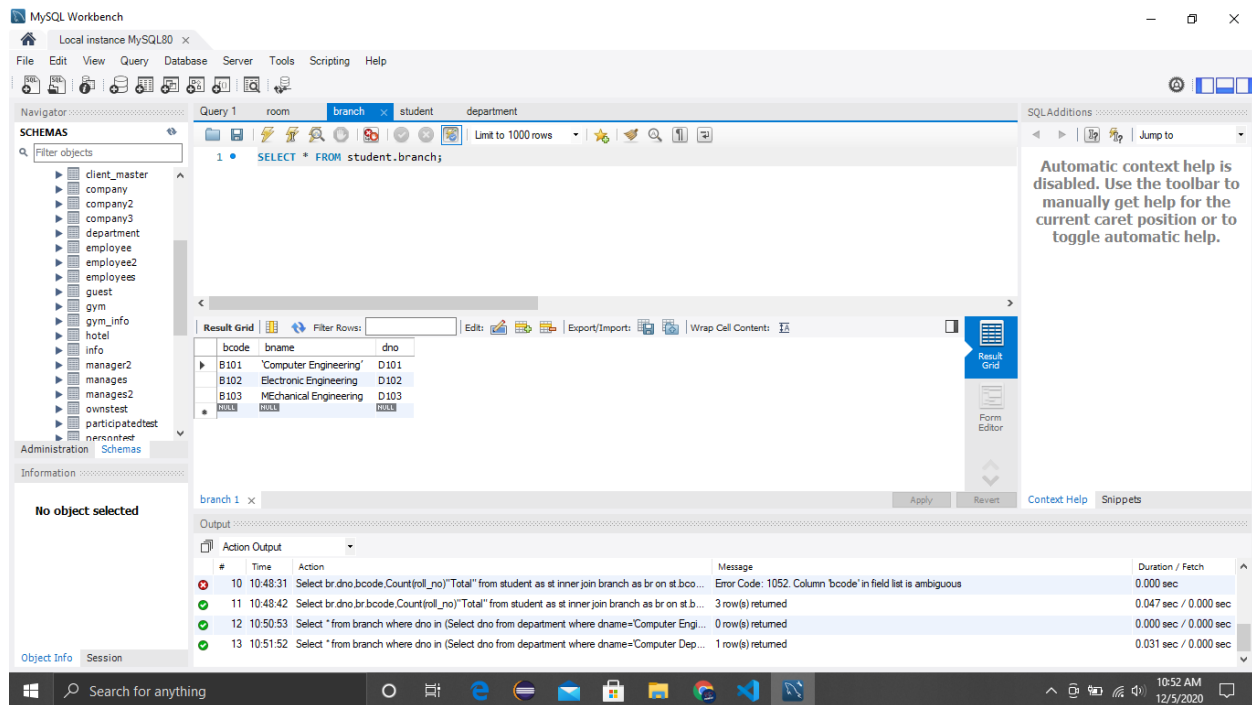
(2,'Pankaj','1999-08-14','M','B102'),

(3,'Shilpa','1993-11-18','F','B103');



Create table Branch(  
 bcode VARCHAR(4) NOT NULL primary key,  
 bname VARCHAR(30) NOT NULL,  
 dno varchar(4) NOT NULL,  
 foreign key(dno) references Department(dno)  
 );

INSERT INTO Branch(bcode,bname,dno)  
 VALUES  
 ('B101','Computer Engineering','D101'),  
 ('B102','Electronic Engineering','D102'),  
 ('B103','MEchanical Engineering','D103');



Create table Department(

dno VARCHAR(4) NOT NULL primary key,

dname VARCHAR(30) Not null

);

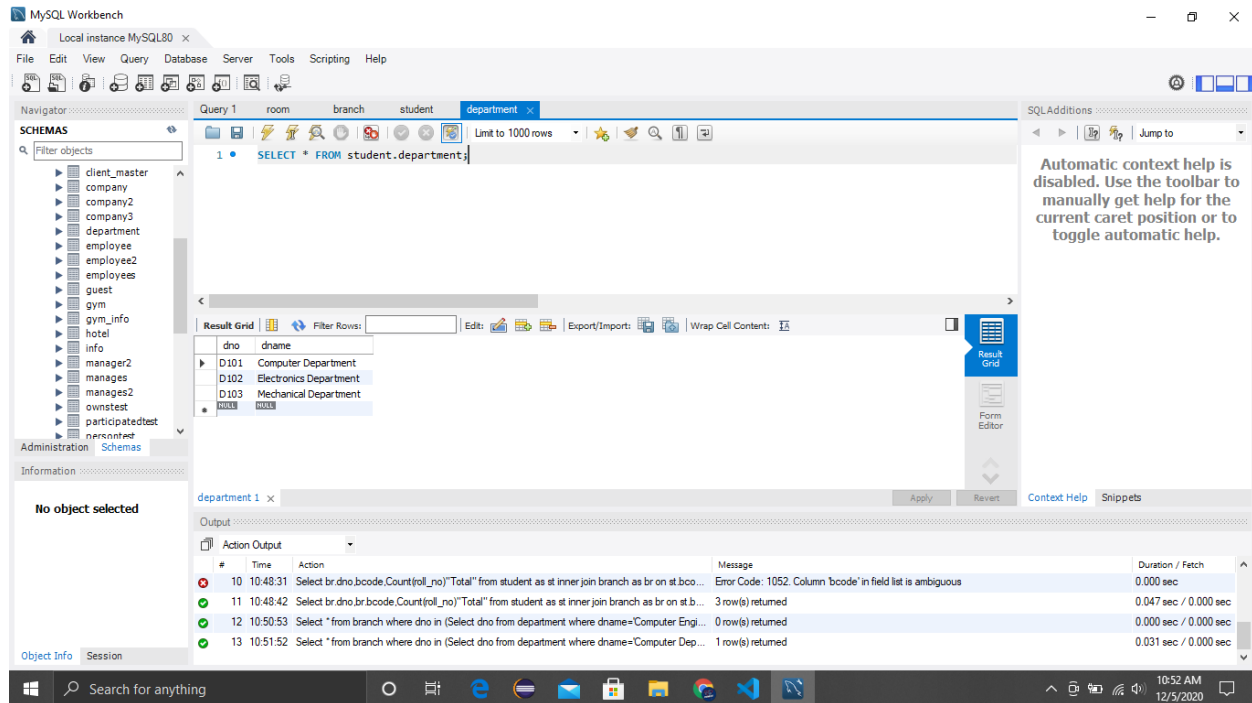
INSERT INTO Department(dno,dname)

VALUES

('D101','Computer Department'),

('D102','Electronics Department'),

('D103','Mechanical Department');

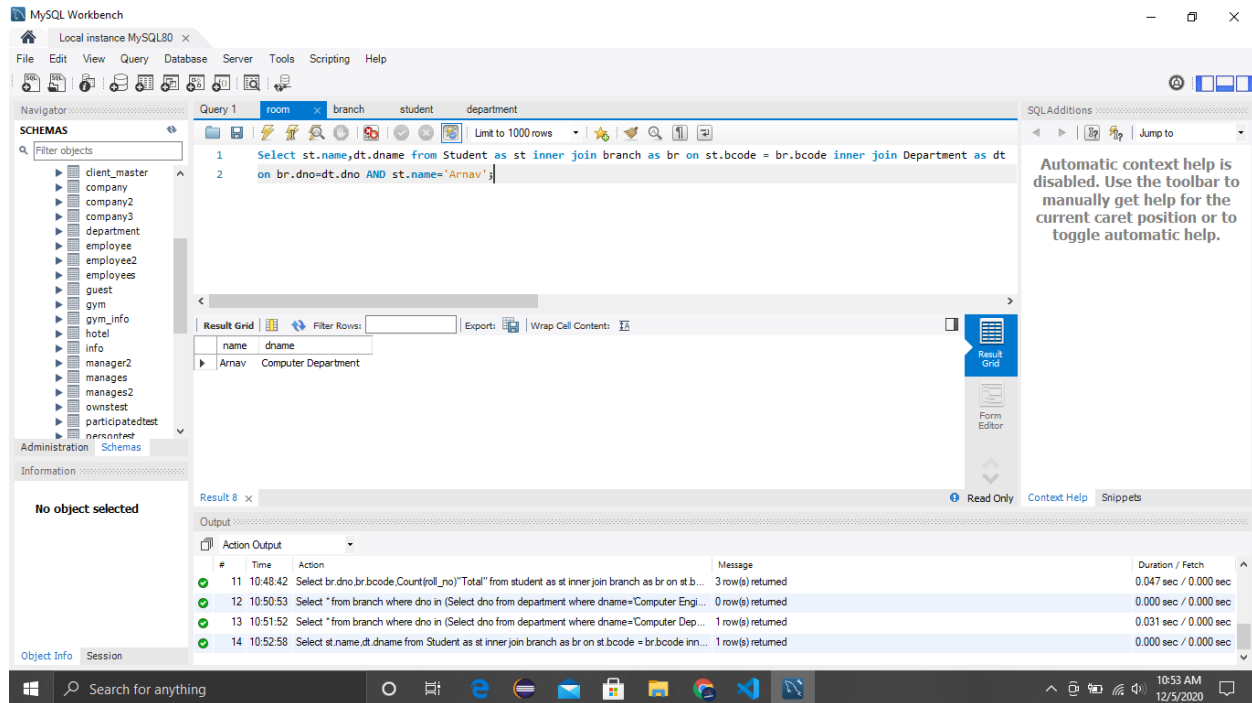


Q.1 Find out the name of the department in which Student with name 'Arnav' is

Enrolled

Ans . Select st.name,dt.dname from Student as st inner join branch as br on st.bcode = br.bcode inner join Department as dt

on br.dno=dt.dno AND st.name='Arnav';



Q.2 Find out the total no students according to Department and Branch

Ans . Select br.dno,br.bcode,Count(roll\_no)"Total" from student as st inner join branch as br on st.bcode=br.bcode

group by br.dno,bcode;

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- client\_master
- company
- company2
- company3
- department
- employee
- employee2
- employees
- guest
- gym
- gym\_info
- hotel
- info
- manager2
- manages
- manages2
- ownertest
- participatedtest
- personconf

Administration Schemas

Information

No object selected

Query 1

room branch student department

Limit to 1000 rows

```
1 • Select br.dno,br.bcode,Count(roll_no)"Total" from student as st inner join branch as br on st.bcode=br.bcode
2 group by br.dno,bcode;
```

Result Grid

dno	bcode	Total
D101	B101	1
D102	B102	1
D103	B103	1

Result 9

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	10:50:53	Select * from branch where dno in (Select dno from department where dname='Computer Engi...	0 row(s) returned	0.000 sec / 0.000 sec
13	10:51:52	Select * from branch where dno in (Select dno from department where dname='Computer Dep...	1 row(s) returned	0.031 sec / 0.000 sec
14	10:52:58	Select st.name,dt.dname from Student as st inner join branch as br on st.bcode = br.bcode inn...	1 row(s) returned	0.000 sec / 0.000 sec
15	10:53:14	Select br.dno,br.bcode,Count(roll_no)"Total" from student as st inner join branch as br on st.b...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search for anything

10:53 AM 12/5/2020

Q.3 Display the details of branched under the 'Computer Engineering'

Ans. Select \* from branch where dno in (Select dno from department where dname='Computer Department');

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- client\_master
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- company2
- company3
- department
- employee
- employee2
- employees
- guest
- gym
- gym\_info
- hotel
- info
- manager2
- manages
- manages2
- ownstest
- participatedtest
- personnel

Administration Schemas

Information

No object selected

Query 1

room branch student department

Limit to 1000 rows

1 • Select \* from branch where dno in (Select dno from department where dname='Computer Department');

Result Grid

	bcode	bname	dno
▶	B101	Computer Engineering	D101
•	1000	1000	1000

Filter Rows: Edit Export/Import Wrap Cell Content

Result Grid Form Editor

SQLAdditions

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

branch 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
13	10:51:52	Select * from branch where dno in (Select dno from department where dname='Computer Dep...	1 row(s) returned	0.031 sec / 0.000 sec
14	10:52:58	Select st.name,dt.dname from Student as st inner join branch as br on st.bcode = br.bcode inn...	1 row(s) returned	0.000 sec / 0.000 sec
15	10:53:14	Select br.dno,br.bcode,Count(roll_no)"Total" from student as st inner join branch as br on st.b...	3 row(s) returned	0.000 sec / 0.000 sec
16	10:53:31	Select * from branch where dno in (Select dno from department where dname='Computer Dep...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Search for anything

10:53 AM 12/5/2020