1. SELECT * FROM student INNER JOIN instructor ON student.department_name =
 instructor.department_name;

Database university

Table structure for table student

Column	Туре	Nu 11	Defa ult	Links to	Comment	Media type
student_id	int(11)	No				, , ,
student_nam e	varchar (25)	Ye s	NULL			
department_ name	varchar (25)	Ye s	NULL			
total_credi ts	int(11)	Ye s	NULL			
birthdate	date	Ye s	NULL			

Dumping data for table student

studen	student_	department	total_c	birth	instruc	instructo	department	sala
t_id	name	_name	redits	date	tor_id	r_name	_name	ry
2001	sam	comp	8	NULL	5001	aaa	comp	1000 00
2004	Elis	comp	4	NULL	5001	aaa	comp	1000 00
2001	sam	comp	8	NULL	5002	bbb	comp	5000 0
2004	Elis	comp	4	NULL	5002	bbb	comp	5000 0
2002	mary	civil	7	NULL	5003	ссс	civil	1500 00
2003	judit	electronic s	4	NULL	5004	ddd	electronic s	7500 0

SELECT * FROM student NATURAL JOIN instructor;

Database university

Table structure for table student

Column	Туре	Nu 11	Defa ult	Links to	Comment	Media type
student_id	int(11)	No				
student_nam	varchar	Ye	NULL			
е	(25)	S	NOLL			
department_	varchar	Ye	NULL			
name	(25)	S	NOLL			
total_credi	int(11)	Ye	NULL			
ts	1110(11)	S	NOLL			
birthdate	date	Ye	NULL			
DIFTIUALE	uace	S	NOLL			

Dumping data for table student

department_ name	studen t_id	student_n ame	total_cr edits	birth date	instruct or_id	instructor _name	sala ry
comp	2001	sam	8	NULL	5001	aaa	1000 00
comp	2004	Elis	4	NULL	5001	aaa	1000 00
comp	2001	sam	8	NULL	5002	bbb	5000 0
comp	2004	Elis	4	NULL	5002	bbb	5000 0
civil	2002	mary	7	NULL	5003	ссс	1500 00
electronics	2003	judit	4	NULL	5004	ddd	7500 0

3. SELECT * FROM student LEFT JOIN instructor ON student.department_name =
 instructor.department_name;

Database university

Table structure for table student

Column	Туре	Nu 11	Defa ult	Links to	Comment s	Media type
student_id	int(11)	No				
student_nam e	varchar (25)	Ye s	NULL			
department_ name	varchar (25)	Ye s	NULL			
total_credi ts	int(11)	Ye s	NULL			
birthdate	date	Ye s	NULL			

Dumping data for table student

studen t_id	student_ name	department _name	total_c redits	birth date	instruc tor_id	instructo r_name	department _name	sala ry
2001	sam	comp	8	NULL	5001	aaa	comp	1000 00
2004	Elis	comp	4	NULL	5001	aaa	comp	1000 00
2001	sam	сотр	8	NULL	5002	bbb	comp	5000 0
2004	Elis	comp	4	NULL	5002	bbb	comp	5000 0
2002	mary	civil	7	NULL	5003	ссс	civil	1500 00
2003	judit	electronic s	4	NULL	5004	ddd	electronic s	7500 0

4. SELECT * FROM student RIGHT JOIN instructor ON student.department_name =
 instructor.department_name;

Database university

Table structure for table student

Column	Туре	Nu 11	Defa ult	Links to	Comment	Media type
student_id	int(11)	No				, ,,
student_nam e	varchar (25)	Ye s	NULL			
department_ name	varchar (25)	Ye s	NULL			
total_credi ts	int(11)	Ye s	NULL			
birthdate	date	Ye s	NULL			

Dumping data for table student

studen	student_	department	total_c	birth	instruc	instructo	department	sala
t_id	name	_name	redits	date	tor_id	r_name	_name	ry
2001	sam	comp	8	NULL	5001	aaa	comp	1000 00
2001	sam	comp	8	NULL	5002	bbb	comp	5000 0
2002	mary	civil	7	NULL	5003	ссс	civil	1500 00
2003	judit	electronic s	4	NULL	5004	ddd	electronic s	7500 0
2004	Elis	comp	4	NULL	5001	aaa	comp	1000 00
2004	Elis	comp	4	NULL	5002	bbb	comp	5000 0

5. SELECT * FROM student LEFT JOIN instructor ON student.department_name =
 instructor.department_name
 UNION
 SELECT *
 FROM student
 RIGHT JOIN instructor ON student.department_name = instructor.department_name;

Database university

Table structure for table student

Column	Туре	Nu 11	Defa ult	Links to	Comment s	Media type
student_id	int(11)	No				
student_nam e	varchar (25)	Ye s	NULL			
department_ name	varchar (25)	Ye s	NULL			
total_credi ts	int(11)	Ye s	NULL			
birthdate	date	Ye s	NULL			

Dumping data for table student

studen t_id	student_ name	department _name	total_c redits	birth date	instruc tor_id	instructo r_name	department _name	sala ry
2001	sam	comp	8	NULL	5001	aaa	comp	1000 00
2004	Elis	comp	4	NULL	5001	aaa	comp	1000 00
2001	sam	comp	8	NULL	5002	bbb	comp	5000 0
2004	Elis	comp	4	NULL	5002	bbb	comp	5000 0
2002	mary	civil	7	NULL	5003	ссс	civil	1500 00
2003	judit	electronic s	4	NULL	5004	ddd	electronic s	7500 0

6. select student.student_name from student join takes on student.student_id =
 takes.student_id WHERE takes.course_id = 101;

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_name		varchar(25)	Yes	NULL
department_n	ame	varchar(25)	Yes	NULL
total_credit	S	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

sam

Elis

- 7. SELECT student_student_name, instructor.instructor_name FROM student JOIN takes
- on student.student_id = takes.student_id JOIN teaches
- on takes.course_id = teaches.course_id JOIN instructor
- on teaches.instructor_id = instructor.instructor_id where teaches.course_id =101;

Database university

Dumping data for table student

Elis aaa

sam	aaa
Elis	bbb
sam	bbb

8. SELECT student.student_name from student JOIN takes on student.student_id =
takes.student_id
where takes.date_registered = '2023-01-01';

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_nam	e	varchar(25)	Yes	NULL
department_	name	varchar(25)	Yes	NULL
total_credi	ts	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

sam

Elis

9. select COUNT(*) from student JOIN takes
on student.student_id = takes.student_id WHERE takes.course_id = 102;

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_nam	e	varchar(25)	Yes	NULL
department_	name	varchar(25)	Yes	NULL
total_credi	ts	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

10. SELECT COUNT(DISTINCT student.student_id) AS student_count, student.student_name
FROM student JOIN takes ON student.student_id = takes.student_id WHERE
takes.course_id = 102 GROUP BY student.student_id, student.student_name;

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_name		varchar(25)	Yes	NULL
department_n	ame	varchar(25)	Yes	NULL
total_credit	S	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

samElis

11.
SELECT COUNT(DISTINCT instructor.instructor_id) AS number_of_instructors
FROM student
JOIN takes ON student.student_id = takes.student_id
JOIN teaches ON takes.course_id = teaches.course_id
JOIN instructor ON teaches.instructor_id = instructor.instructor_id
WHERE student.student_name = 'sam';

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_name		varchar(25)	Yes	NULL
department_na	ame	varchar(25)	Yes	NULL
total_credits	5	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

12.
SELECT COUNT(student.student_id) from student JOIN takes ON student.student_id =
takes.student_id WHERE year(CURRENT_TIME) - year(takes.date_registered) > 1;

Database university

Table structure for table student

	Column	Туре	Null	Default
student_id		int	No	
student_nam	e	varchar(25)	Yes	NULL
department_	name	varchar(25)	Yes	NULL
total_credi	ts	int	Yes	NULL
birthdate		date	Yes	NULL

Dumping data for table student

0

13. SELECT credits
FROM course
WHERE course_id = 201;

Database university

Table structure for table course

	Column	Туре	Null	Default
course_id		int	No	
title		varchar(25)	Yes	NULL
department_r	name	varchar(25)	Yes	NULL
credits		int	Yes	NULL

Dumping data for table course

3

14. SELECT student.student_id, student.student_name, course.title AS course_name,
instructor.instructor_name
FROM student
JOIN takes ON student.student_id = takes.student_id
JOIN course ON takes.course_id = course.course_id
JOIN teaches ON takes.course_id = teaches.course_id

JOIN instructor ON teaches.instructor_id = instructor.instructor_id;

Database university

Dumping data for table course

2004	Elis	dbms	aaa
2001	sam	dbms	aaa
2004	Elis	os	aaa
2001	sam	os	aaa
2004	Elis	dbms	bbb
2001	sam	dbms	bbb
2004	Elis	os	bbb
2001	sam	os	bbb
2002	mary	mechanics	ссс
2002	mary	foundation Engineering	ссс
2003	judit	signals and system	ddd

15. SELECT course.title FROM course INNER JOIN teaches ON course.course_id =
teaches.course_id;

Database university

Table structure for table course

Column	Туре	Nu 11	Defa ult	Links to	Comment	Media type
course_id	int(11)	No				
title	varchar (25)	Ye s	NULL			
department_ name	varchar (25)	Ye s	NULL			
credits	int(11)	Ye s	NULL			

Dumping data for table course

title	
dbms	
os	
dbms	
os	
mechanics	
foundation	
Engineering	
signals and	
system	