Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: DBMS (2CSE301)
MIDSEM – 1
PRACTICAL-EXAM

Aim: Practical Definition

No.	Problem Definition	Marks
(01)	Create 2 tables – **person** and **contact** for the database **enrolment_branch** as per the given schema. Also, Insert data as given at the end: **person**	(4)

person

id	Integer	Primary key
firstName	String	Not null
lastName	String	Not null
dob	Date	

contact

id	Integer	Primary key
person_id	Integer	Foreign key to id column of Person relation
contact_type	String	Default 'email' Should contain 'email', 'skype', ' fixed line', 'icq', 'mobile'
contact_value	String	Not null

QUERY (Table 1 - person)

CREATE TABLE person(id INT PRIMARY KEY, firstName VARCHAR(20) NOT NULL, lastName VARCHAR(20) NOT NULL, dob DATE);

OUTPUT

MySQL returned an empty result set (i.e. zero rows). (Query took 0.1976 seconds.)

CREATE TABLE person(id INT PRIMARY KEY, firstName VARCHAR(20) NOT NULL, lastName VARCHAR(20) NOT NULL, dob DATE);

[Edit inline] [Edit] [Create PHP code]

Your SQL query has been executed successfully.

DESCRIBE person;

[Edit inline] [Edit] [Create PHP code]

+ Options

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	
firstName	varchar(20)	NO		NULL	
lastName	varchar(20)	NO		NULL	
dob	date	YES		NULL	

QUERY (Table 2 - contact)

CREATE TABLE contact(id INT PRIMARY KEY,person_id INT, contact_type VARCHAR(20) DEFAULT 'email' CHECK(contact_type IN('email','skype','fixed line','icq','mobile')), contact_value VARCHAR(20) NOT NULL, FOREIGN KEY(person_id) REFERENCES person(id));

OUTPUT

DATE VALUES: -

person

id	firstName	lastName	dob
1	Larry	Goldstein	1970-11-20
2	Lisa	Hamilton	1977-01-22
3	Kim	Goldstein	1975-12-23
4	James	de Winter	2011-06-01
5	Elias	Baker	1975-12-23
6	John	de Winter	1975-12-23

QUERY (Data of Table 1- person)

INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('1','Larry','Goldstein','1970-11-20');
INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('2','Lisa','Hamilton','1977-01-22');
INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('3','Kim','Goldstein','1975-12-23');
INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('4','James','de Winter','2011-06-01');
INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('5','Elias','Baker','1975-12-23');
INSERT INTO `person`(`id`, `firstName`, `lastName`, `dob`) VALUES ('6','John','de Winter','1975-12-23');

OUTPUT (Table 1)
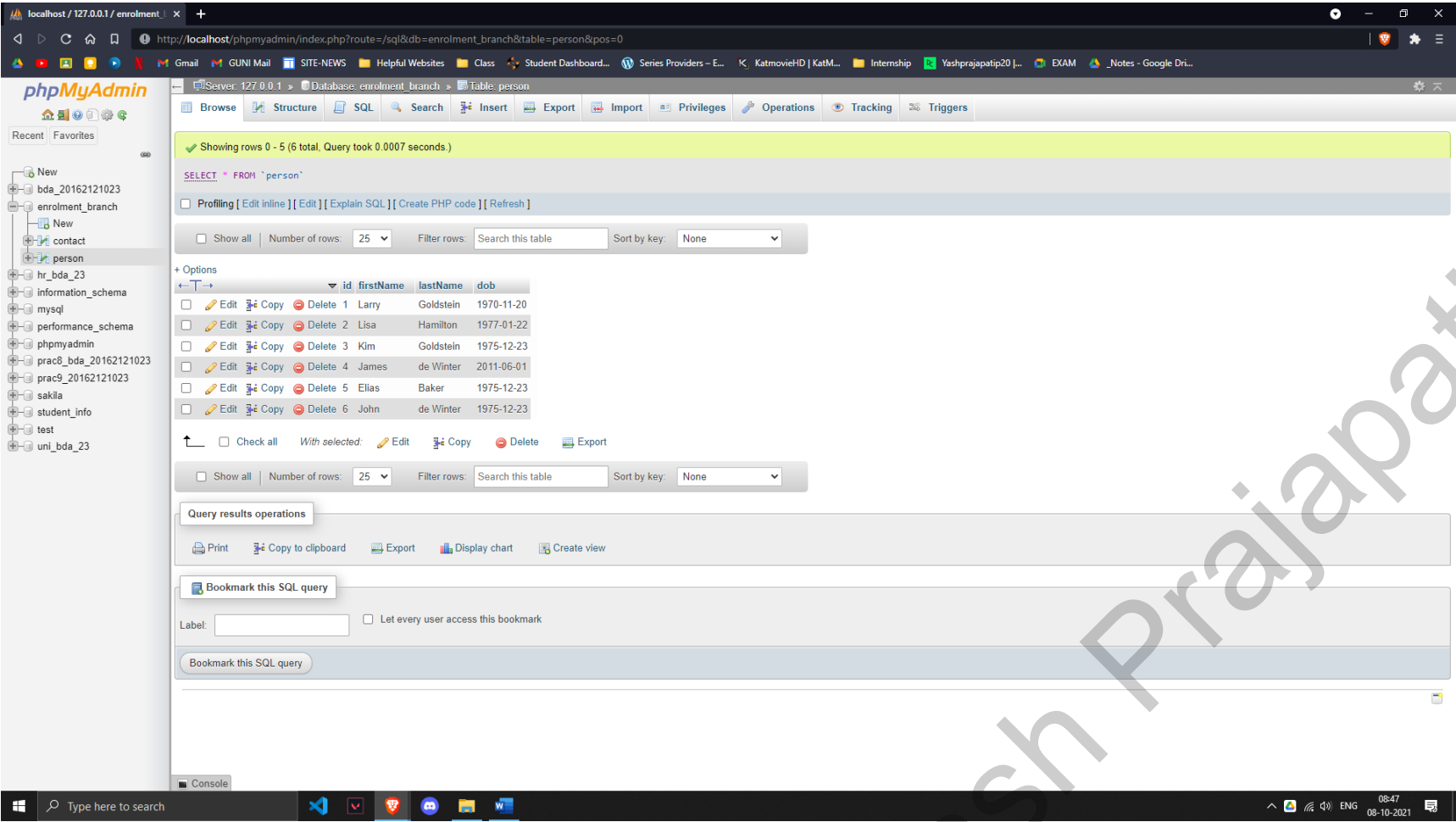
contact

id	person_id	contact_type	contact_value
1	1	fixed line	555-0100
2	1	email	larry.goldstein@acme.xx
3	2	icq	12111
4	3	fixed line	5550101
5	3	mobile	10123444444
6	4		james.dewinter@acme.yy

QUERY (Data of Table 2- person)

INSERT INTO `contact`(`id`, `person_id`, `contact_type`, `contact_value`) VALUES ('1','1','fixed line','555-0100');

INSERT INTO `contact`(`id`, `person_id`, `contact_type`, `contact_value`) VALUES ('2','1','email','larry.goldstein@acme.xx');

INSERT INTO `contact`(`id`, `person_id`, `contact_type`, `contact_value`) VALUES ('3','2','icq','12111');

INSERT INTO `contact`(`id`, `person_id`, `contact_type`, `contact_value`) VALUES ('4','3','fixed line','555-0101');

INSERT INTO `contact`(`id`, `person_id`, `contact_type`, `contact_value`) VALUES ('5','3','mobile','10123444444');

INSERT INTO `contact`(`id`, `person_id`, `contact_value`) VALUES ('6','4','james.dewinter@acme.yy');
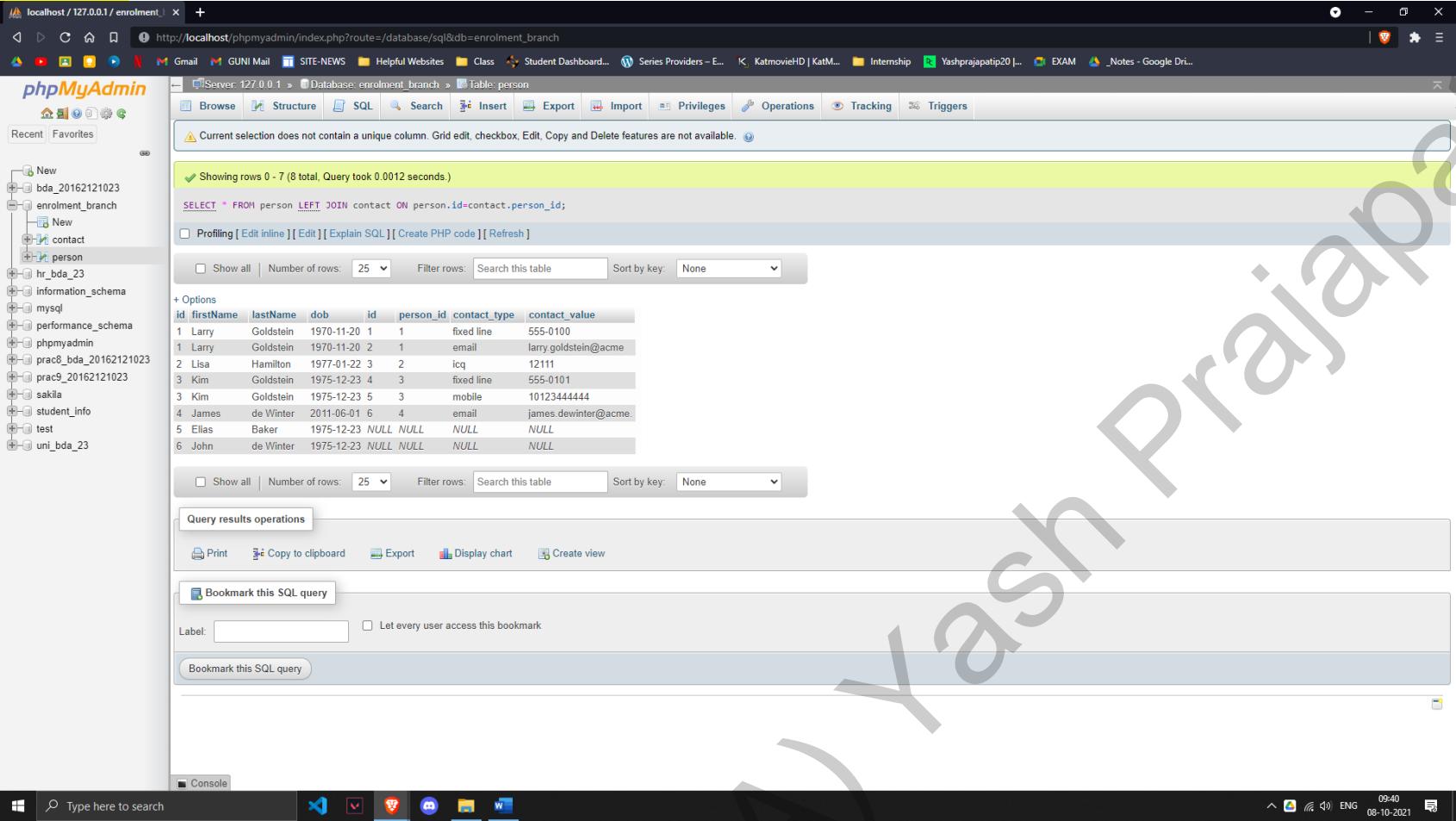
OUTPUT (Table 2)

Questions: -

Q2. Display All the details of people whose contact details are not available. (2)

==QUERY==

SELECT * FROM person LEFT JOIN contact ON person.id=contact.person_id;

==OUTPUT==
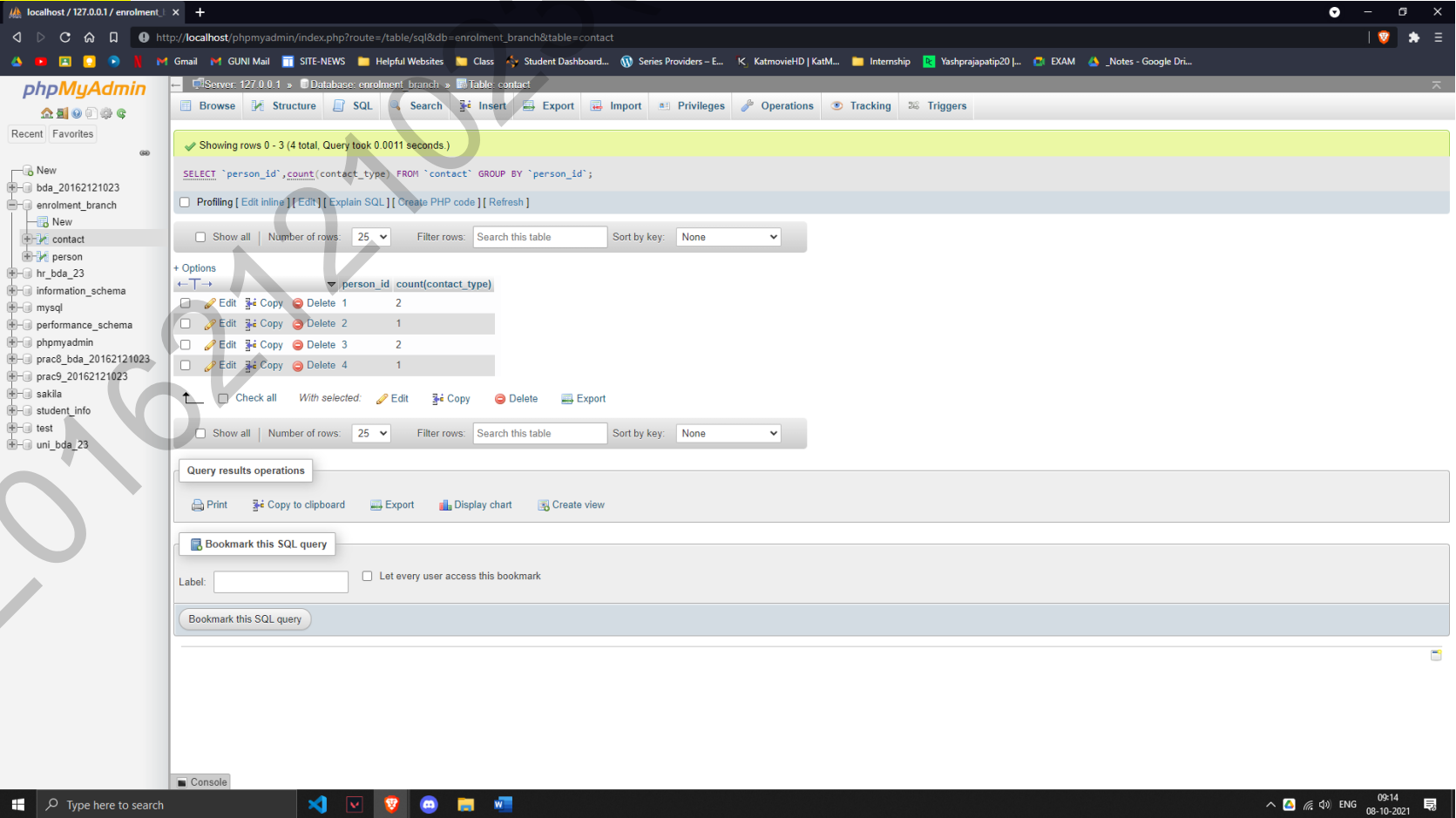
Q3. Display person_id and total count of his/her contact type. (2)

==QUERY==

SELECT `person_id`,count(contact_type) FROM `contact` GROUP BY `person_id`;

==OUTPUT==

Q4. **Display the contact details of the people who are born in December month in the descending order of their last name. (3)**

QUERY

SELECT * FROM person INNER JOIN contact ON person.id=contact.id WHERE person.dob LIKE '%12%' ORDER BY person.lastName DESC;

OUTPUT
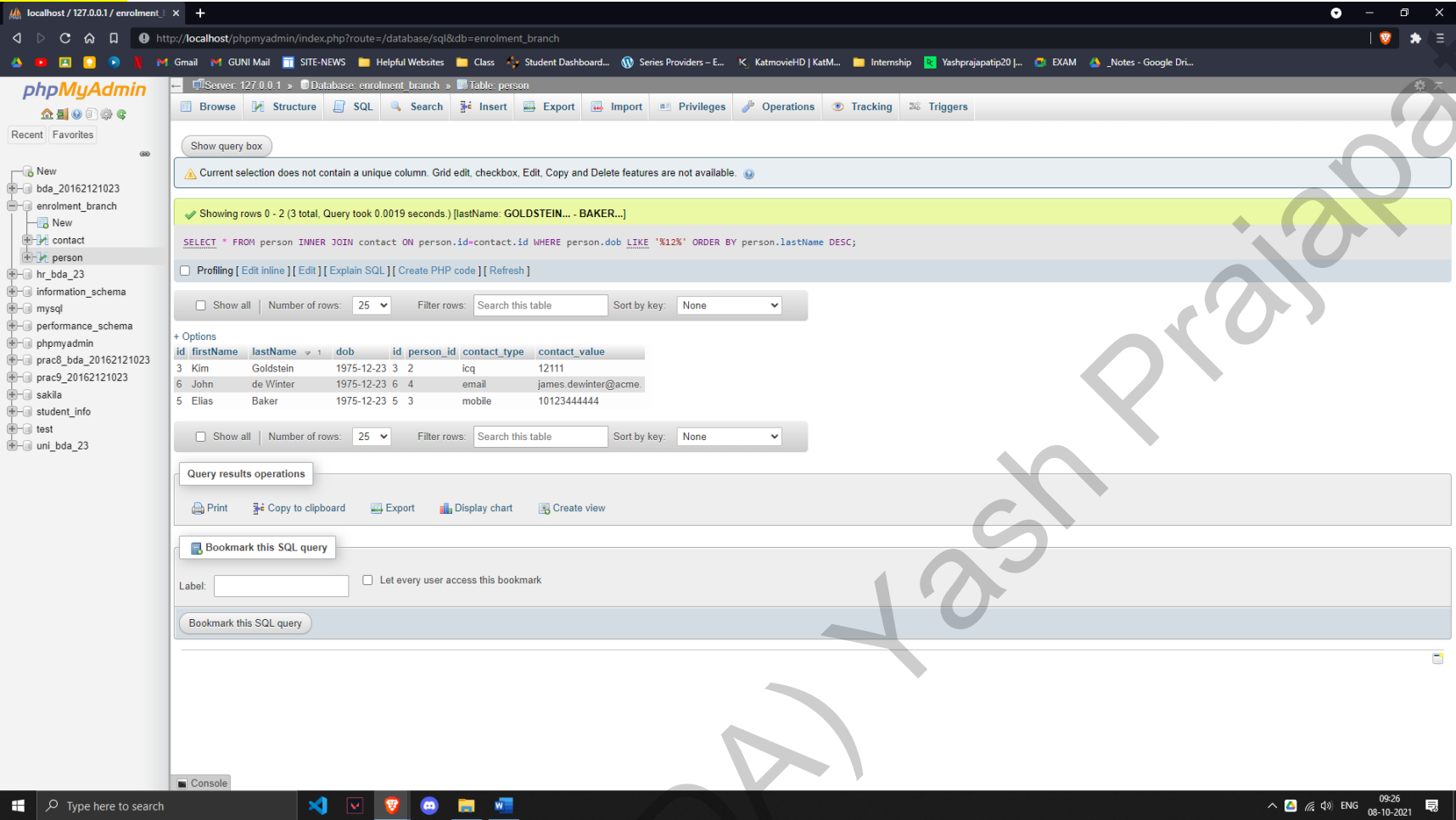
Q5. **Rename the table contact to 'contact_info'. (1)**

QUERY

ALTER TABLE contact RENAME TO contact_info;

OUTPUT