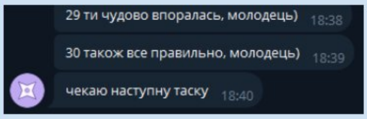
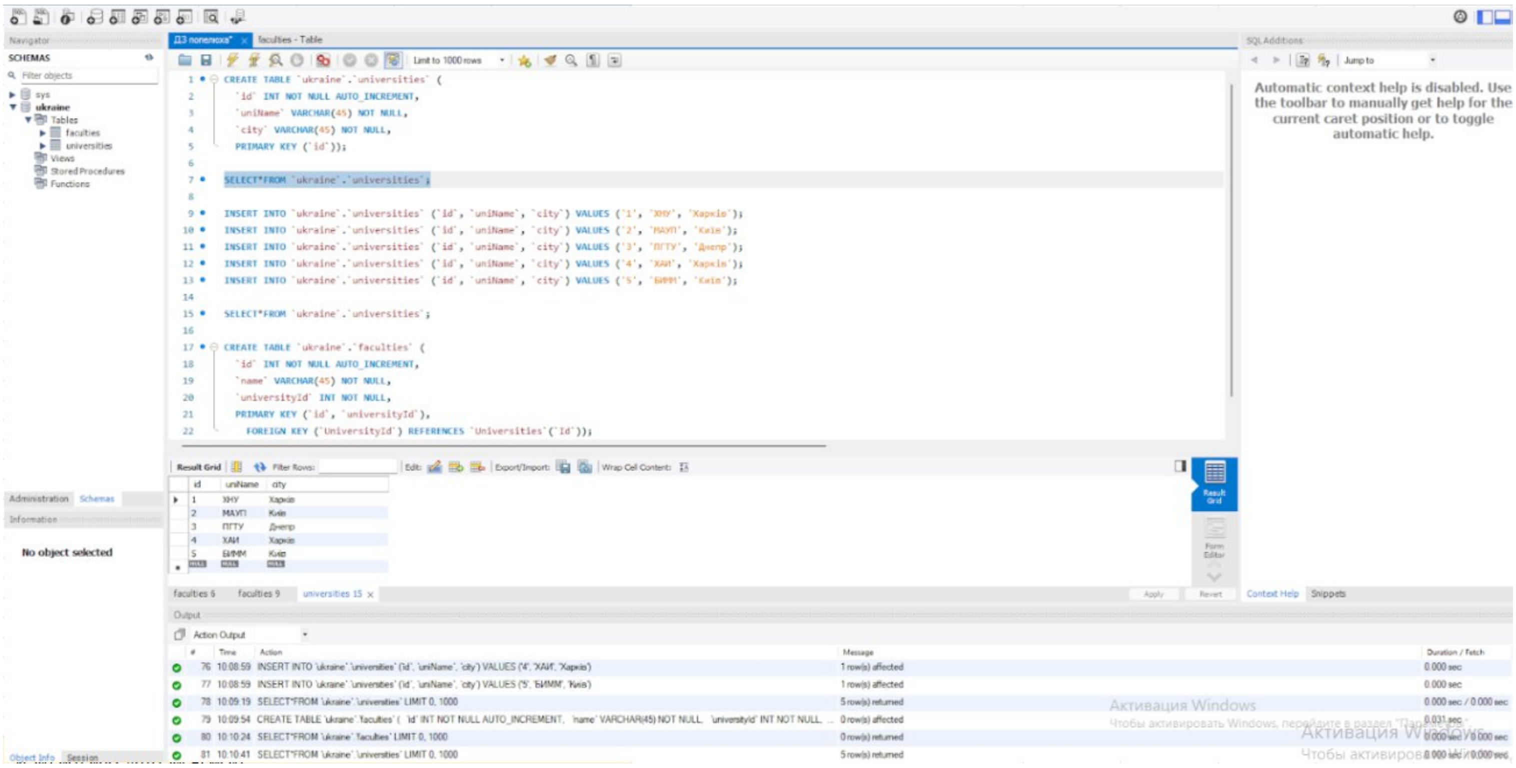
Coach's task:	**29. In the databases, create tables, relationships between them and fill them with data. Requirements:** **a) Universities table with columns Id, UniName, City. One or more universities in the name must contain the letter U (LNU, CHNU)** **b) Faculties table with columns Id, Name, UniversityId (tied with a foreign key to the Universities table).** **c) Groups table with branches Id, GroupNumber, FacultyId (tied with a foreign key to the Faculties table). When filling in, keep in mind that group numbers depend on the course. The first digit of the group always indicates the course (1 course = 102, 103, etc. group). Create one or two groups for each (1-5) course.** **d) Students table with columns Id, Name, Surname, Age, GroupId (tied with a foreign key to the Groups table). When filling in, create one student with the name Ivan.** **e) Provide the result as a screenshot (from here on)**	**Feedback from the coach:**	 29 ти чудово впоралась, молодець) 18:38 30 також все правильно, молодець) 18:39 чекаю наступну таску 18:40

ID	Attachments
a	CREATE TABLE \`ukraine\`.\`universities\` (\`id\` INT NOT NULL AUTO_INCREMENT, \`uniName\` VARCHAR(45) NOT NULL, \`city\` VARCHAR(45) NOT NULL, PRIMARY KEY (\`id\`));

	INSERT INTO \`ukraine\`.\`universities\` (\`id\`, \`uniName\`, \`city\`) VALUES ('1', 'ХНУ', 'Харків');
	INSERT INTO \`ukraine\`.\`universities\` (\`id\`, \`uniName\`, \`city\`) VALUES ('2', 'МАУП', 'Київ');
	INSERT INTO \`ukraine\`.\`universities\` (\`id\`, \`uniName\`, \`city\`) VALUES ('3', 'ПГТУ', 'Днепр');
	INSERT INTO \`ukraine\`.\`universities\` (\`id\`, \`uniName\`, \`city\`) VALUES ('4', 'ХАИ', 'Харків');
	INSERT INTO \`ukraine\`.\`universities\` (\`id\`, \`uniName\`, \`city\`) VALUES ('5', 'БИММ', 'Київ');

	SELECT*FROM \`ukraine\`.\`universities\`;



```
CREATE TABLE `ukraine`.`universities` (
  `id` INT NOT NULL AUTO_INCREMENT,
  `uniName` VARCHAR(45) NOT NULL,
  `city` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`id`));

SELECT*FROM `ukraine`.`universities`;

INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('1', 'ХНУ', 'Харків');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('2', 'МАУП', 'Київ');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('3', 'ПГТУ', 'Днепр');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('4', 'ХАИ', 'Харків');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('5', 'БИММ', 'Київ');

SELECT*FROM `ukraine`.`universities`;

CREATE TABLE `ukraine`.`faculties` (
  `id` INT NOT NULL AUTO_INCREMENT,
  `name` VARCHAR(45) NOT NULL,
  `universityId` INT NOT NULL,
  PRIMARY KEY (`id`, `universityId`),
    FOREIGN KEY (`UniversityId`) REFERENCES `Universities`(`Id`));
```

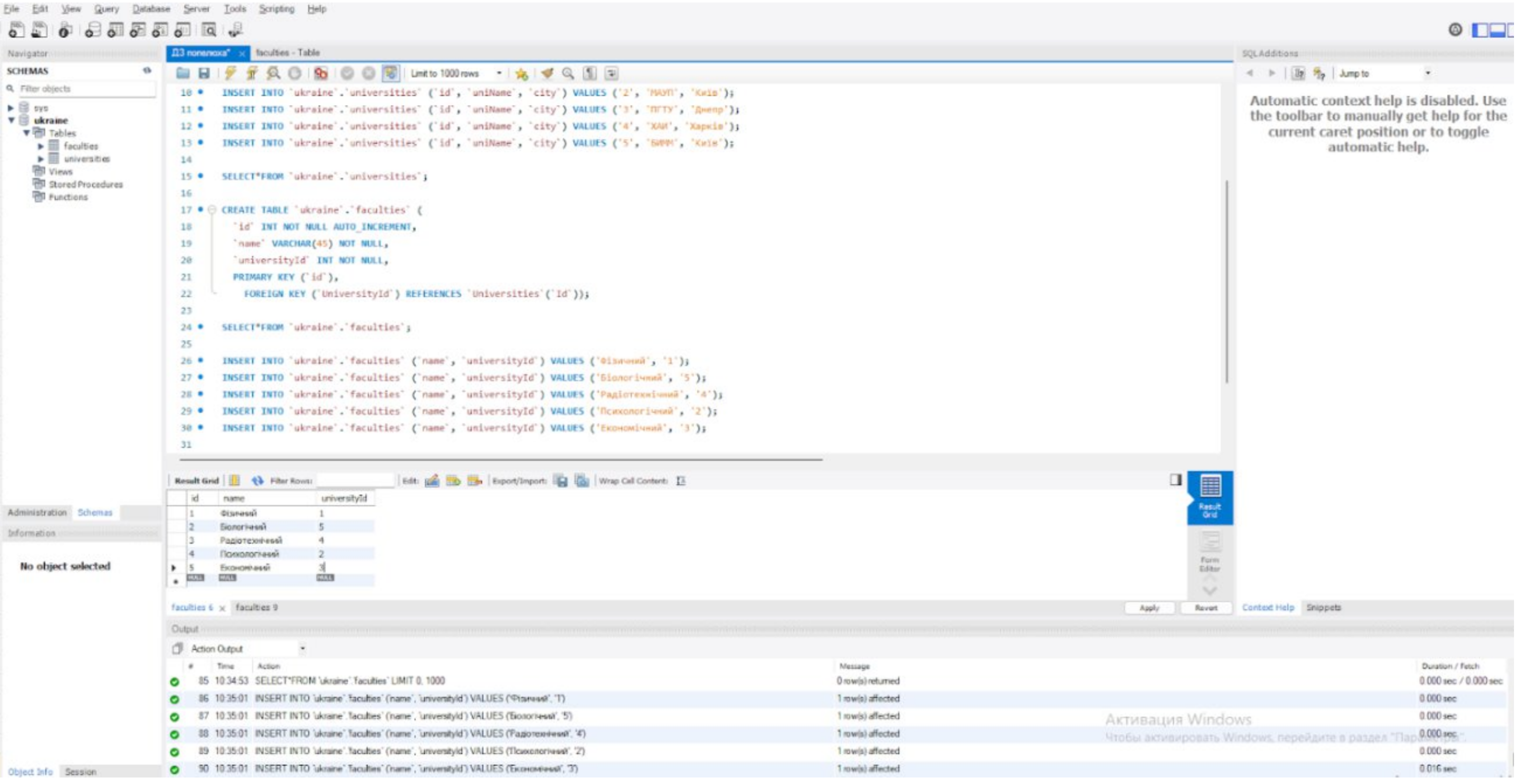
id	uniName	city
1	ХНУ	Харків
2	МАУП	Київ
3	ПГТУ	Днепр
4	ХАИ	Харків
5	БИММ	Київ
NULL	NULL	NULL

```
#   Time      Action                                                                                      Message            Duration / Fetch
76  10:08:59  INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('4', 'ХАИ', 'Харків')  1 row(s) affected  0.000 sec
77  10:08:59  INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('5', 'БИММ', 'Київ')   1 row(s) affected  0.000 sec
78  10:09:19  SELECT*FROM `ukraine`.`universities` LIMIT 0, 1000                                          5 row(s) returned  0.000 sec / 0.000 sec
79  10:09:54  CREATE TABLE `ukraine`.`faculties` (  `id` INT NOT NULL AUTO_INCREMENT,  `name` VARCHAR(45) NOT NULL,  `universityId` INT NOT NULL, ...  0 row(s) affected  0.031 sec
80  10:10:24  SELECT*FROM `ukraine`.`faculties` LIMIT 0, 1000                                             0 row(s) returned  0.000 sec / 0.000 sec
81  10:10:41  SELECT*FROM `ukraine`.`universities` LIMIT 0, 1000                                          5 row(s) returned  0.000 sec / 0.000 sec
```

b	CREATE TABLE \`ukraine\`.\`faculties\` (\`id\` INT NOT NULL AUTO_INCREMENT, \`name\` VARCHAR(45) NOT NULL, \`universityId\` INT NOT NULL, PRIMARY KEY (\`id\`), FOREIGN KEY (\`UniversityId\`) REFERENCES \`Universities\`(\`Id\`));

	INSERT INTO \`ukraine\`.\`faculties\` (\`name\`, \`universityId\`) VALUES ('Фізичний', '1');
	INSERT INTO \`ukraine\`.\`faculties\` (\`name\`, \`universityId\`) VALUES ('Біологічний', '5');
	INSERT INTO \`ukraine\`.\`faculties\` (\`name\`, \`universityId\`) VALUES ('Радіотехнічний', '4');
	INSERT INTO \`ukraine\`.\`faculties\` (\`name\`, \`universityId\`) VALUES ('Психологічний', '2');
	INSERT INTO \`ukraine\`.\`faculties\` (\`name\`, \`universityId\`) VALUES ('Економічний', '3');

	SELECT*FROM \`ukraine\`.\`faculties\`;



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```sql
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('2', 'МАУП', 'Київ');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('3', 'ПГТУ', 'Днепр');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('4', 'ХАИ', 'Харків');
INSERT INTO `ukraine`.`universities` (`id`, `uniName`, `city`) VALUES ('5', 'БИММ', 'Київ');

SELECT*FROM `ukraine`.`universities`;

CREATE TABLE `ukraine`.`faculties` (
  `id` INT NOT NULL AUTO_INCREMENT,
  `name` VARCHAR(45) NOT NULL,
  `universityId` INT NOT NULL,
  PRIMARY KEY (`id`),
    FOREIGN KEY (`UniversityId`) REFERENCES `Universities`(`Id`));

SELECT*FROM `ukraine`.`faculties`;

INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Фізичний', '1');
INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Біологічний', '5');
INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Радіотехнічний', '4');
INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Психологічний', '2');
INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Економічний', '3');
```

id	name	universityId
1	Фізичний	1
2	Біологічний	5
3	Радіотехнічний	4
4	Психологічний	2
5	Економічний	3
NULL	NULL	NULL

```
#   Time     Action                                                                              Message             Duration / Fetch
85  10:34:53 SELECT*FROM `ukraine`.`faculties` LIMIT 0, 1000                                     0 row(s) returned   0.000 sec / 0.000 sec
86  10:35:01 INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Фізичний', '1')       1 row(s) affected   0.000 sec
87  10:35:01 INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Біологічний', '5')    1 row(s) affected   0.000 sec
88  10:35:01 INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Радіотехнічний', '4') 1 row(s) affected   0.000 sec
89  10:35:01 INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Психологічний', '2')  1 row(s) affected   0.000 sec
90  10:35:01 INSERT INTO `ukraine`.`faculties` (`name`, `universityId`) VALUES ('Економічний', '3')    1 row(s) affected   0.016 sec
```

C

```sql
CREATE TABLE `ukraine`.`groups` (
  `groupId` INT NOT NULL AUTO_INCREMENT,
  `groupnumber` INT NOT NULL,
  `facultyId` INT NOT NULL,
  PRIMARY KEY (`groupId`),
    FOREIGN KEY (`facultyId`) REFERENCES `faculties`(`Id`));
```

```sql
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('105', '1');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('112', '4');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('208', '2');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('214', '3');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('315', '1');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('303', '5');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('404', '3');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('455', '5');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('506', '4');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('508', '2');
```

```sql
SELECT*FROM `ukraine`.`groups`;
```

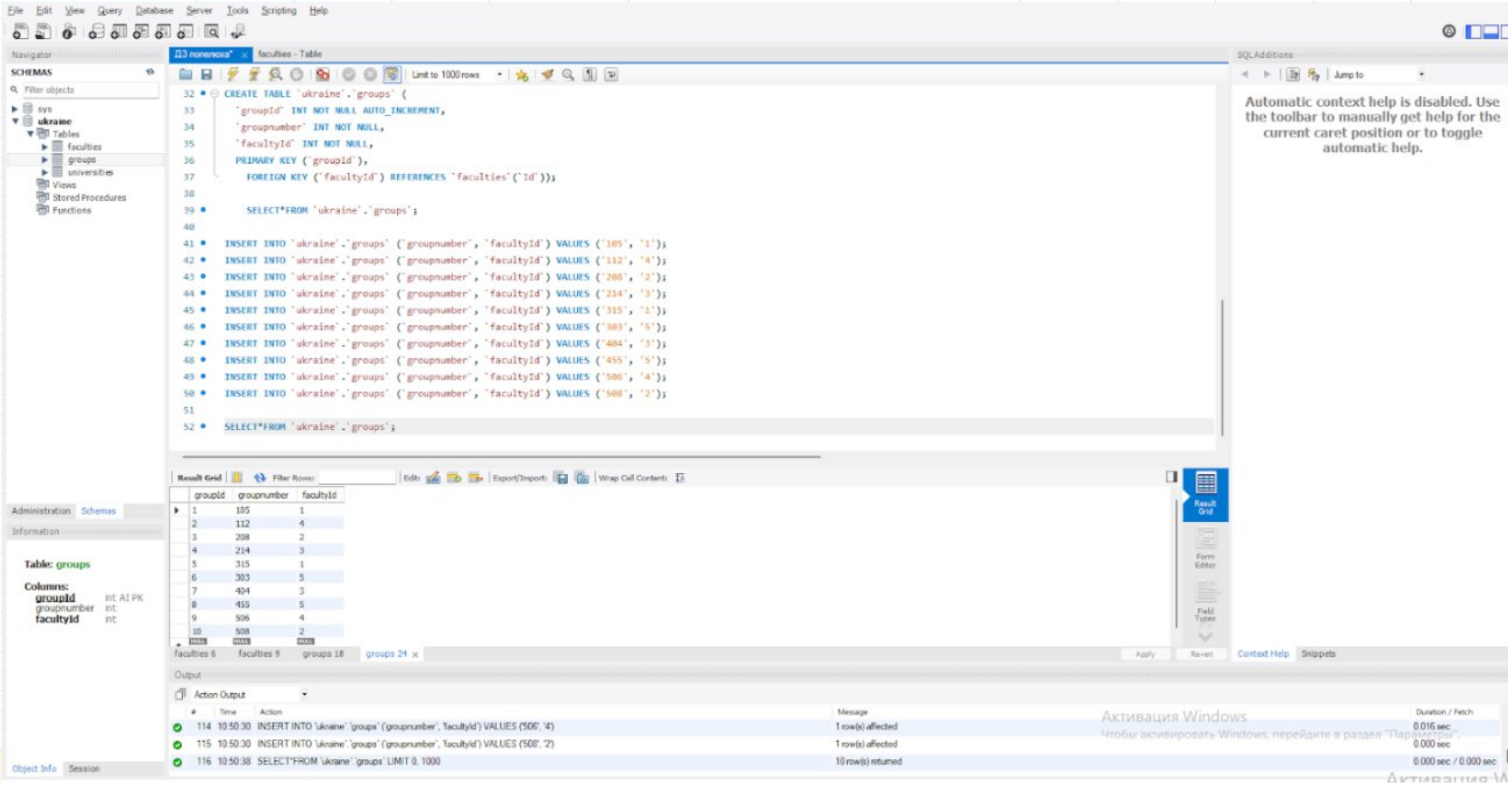

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Table: groups

Columns:

groupId	int AI PK
groupnumber	int
facultyId	int

```sql
CREATE TABLE `ukraine`.`groups` (
  `groupId` INT NOT NULL AUTO_INCREMENT,
  `groupnumber` INT NOT NULL,
  `facultyId` INT NOT NULL,
  PRIMARY KEY (`groupId`),
    FOREIGN KEY (`facultyId`) REFERENCES `faculties`(`Id`));

    SELECT*FROM `ukraine`.`groups`;

INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('105', '1');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('112', '4');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('208', '2');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('214', '3');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('315', '1');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('303', '5');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('404', '3');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('455', '5');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('506', '4');
INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('508', '2');

SELECT*FROM `ukraine`.`groups`;
```

groupId	groupnumber	facultyId
1	105	1
2	112	4
3	208	2
4	214	3
5	315	1
6	303	5
7	404	3
8	455	5
9	506	4
10	508	2
NULL	NULL	NULL

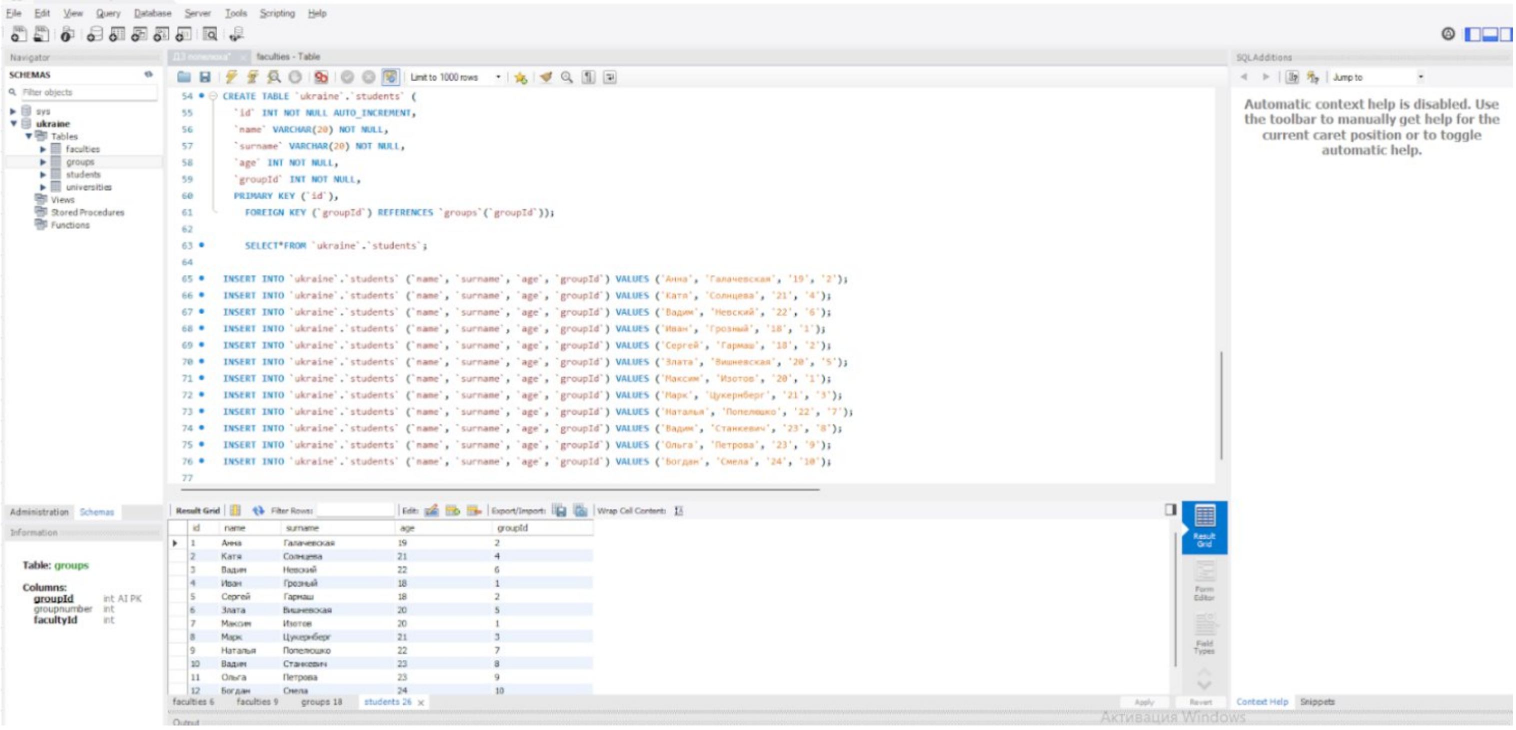
```
#    Time     Action                                                                        Message             Duration / Fetch
114  10:50:30 INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('506', '4') 1 row(s) affected   0.016 sec
115  10:50:30 INSERT INTO `ukraine`.`groups` (`groupnumber`, `facultyId`) VALUES ('508', '2') 1 row(s) affected   0.000 sec
116  10:50:38 SELECT*FROM `ukraine`.`groups` LIMIT 0, 1000                                    10 row(s) returned  0.000 sec / 0.000 sec
```

d

```
CREATE TABLE `ukraine`.`students` (
 `id` INT NOT NULL AUTO_INCREMENT,
 `name` VARCHAR(20) NOT NULL,
 `surname` VARCHAR(20) NOT NULL,
 `age` INT NOT NULL,
 `groupId` INT NOT NULL,
 PRIMARY KEY (`id`),
   FOREIGN KEY (`groupId`) REFERENCES `groups`(`groupId`));
```

```
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Анна', 'Галачевская', '19', '2');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Катя', 'Солнцева', '21', '4');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Вадим', 'Невский', '22', '6');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Иван', 'Грозный', '18', '1');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Сергей', 'Гармаш', '18', '2');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Злата', 'Вишневская', '20', '5');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Максим', 'Изотов', '20', '1');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Марк', 'Цукернберг', '21', '3');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Наталья', 'Попелюшко', '22', '7');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Вадим', 'Станкевич', '23', '8');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Ольга', 'Петрова', '23', '9');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Богдан', 'Смела', '24', '10');
```

```
SELECT*FROM `ukraine`.`students`;
```



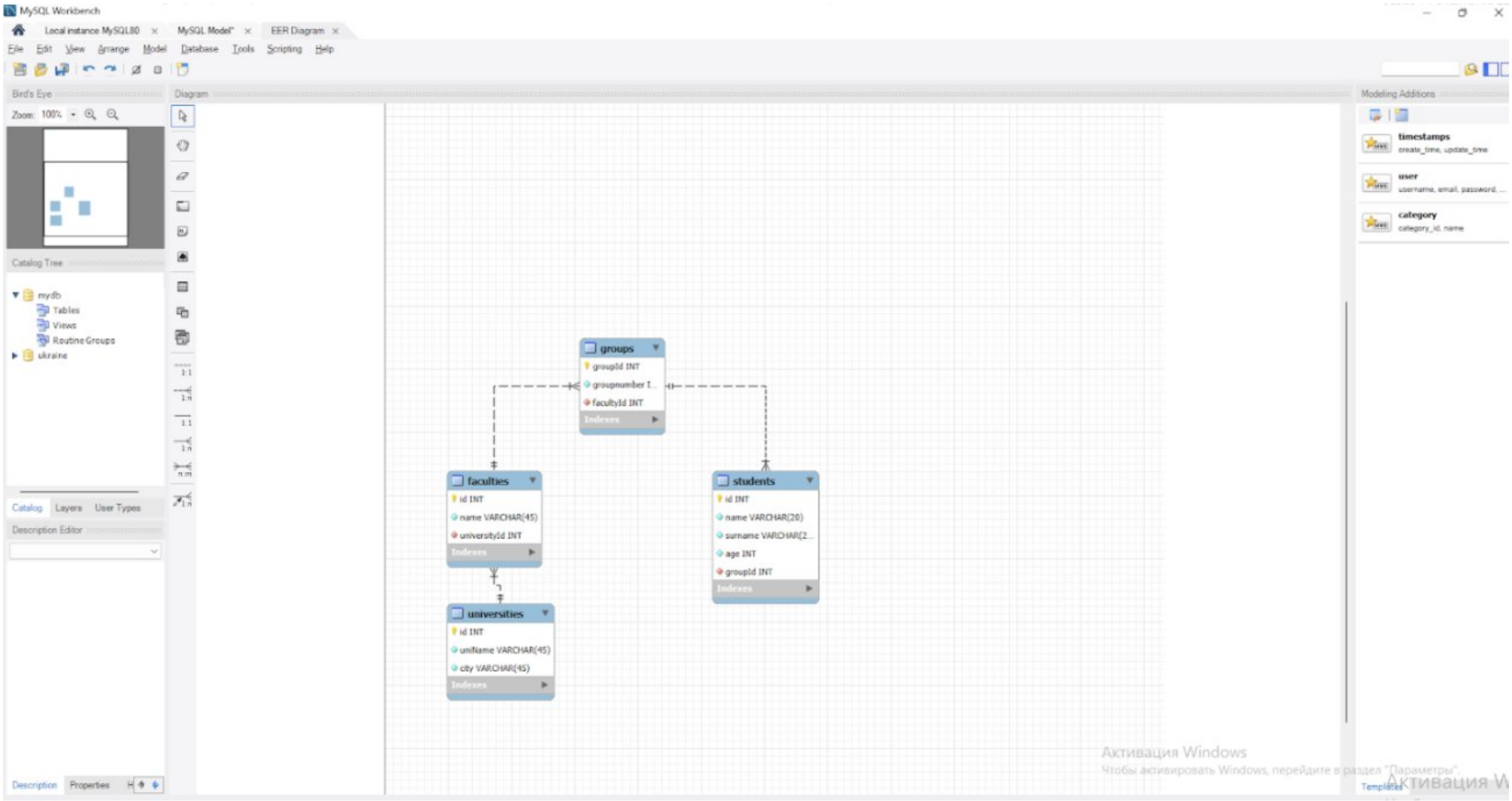
```
CREATE TABLE `ukraine`.`students` (
  `id` INT NOT NULL AUTO_INCREMENT,
 `name` VARCHAR(20) NOT NULL,
 `surname` VARCHAR(20) NOT NULL,
 `age` INT NOT NULL,
 `groupId` INT NOT NULL,
 PRIMARY KEY (`id`),
   FOREIGN KEY (`groupId`) REFERENCES `groups`(`groupId`));

   SELECT*FROM `ukraine`.`students`;

INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Анна', 'Галачевская', '19', '2');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Катя', 'Солнцева', '21', '4');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Вадим', 'Невский', '22', '6');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Иван', 'Грозный', '18', '1');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Сергей', 'Гармаш', '18', '2');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Злата', 'Вишневская', '20', '5');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Максим', 'Изотов', '20', '1');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Марк', 'Цукернберг', '21', '3');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Наталья', 'Попелюшко', '22', '7');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Вадим', 'Станкевич', '23', '8');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Ольга', 'Петрова', '23', '9');
INSERT INTO `ukraine`.`students` (`name`, `surname`, `age`, `groupId`) VALUES ('Богдан', 'Смела', '24', '10');
```

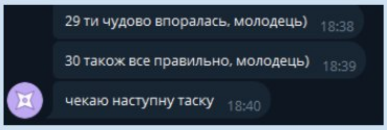
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: groups

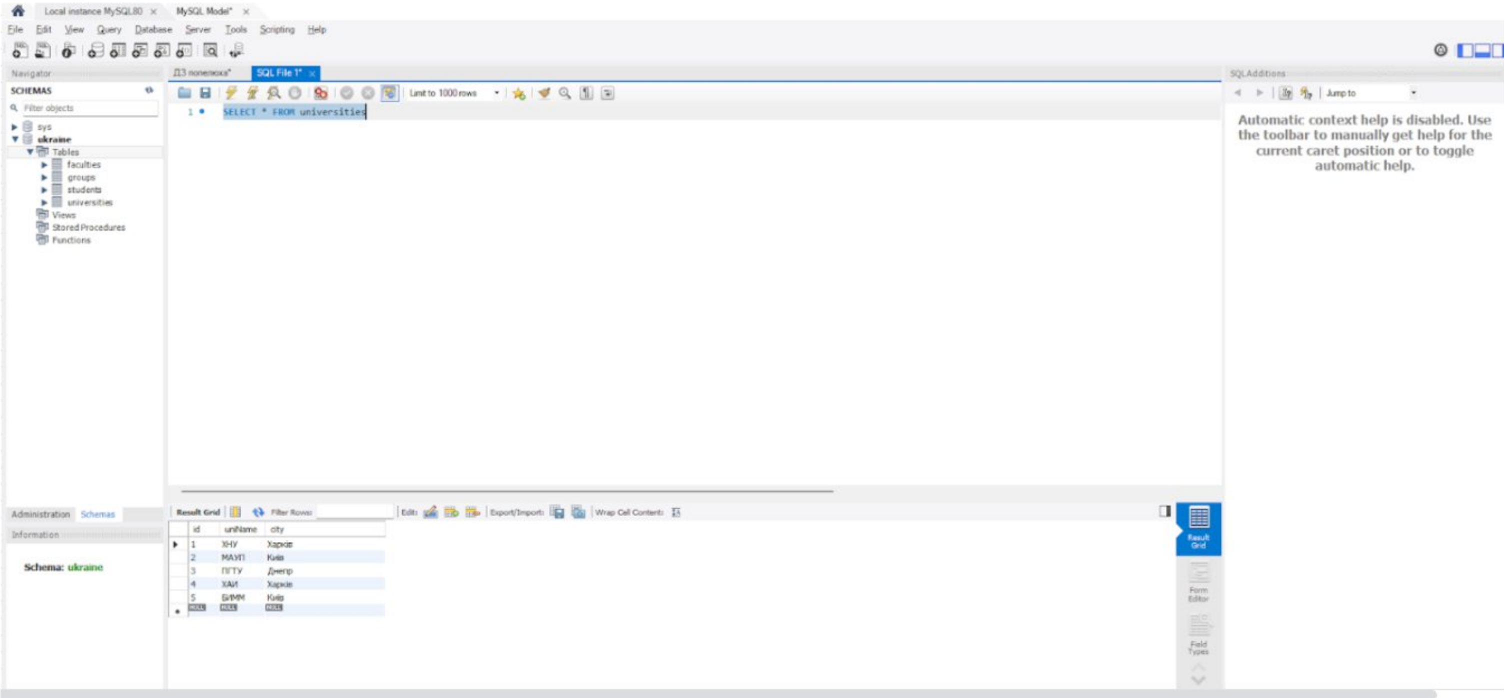
Columns:
groupId int AI PK
groupnumber int
facultyId int

id	name	surname	age	groupId
1	Анна	Галачевская	19	2
2	Катя	Солнцева	21	4
3	Вадим	Невский	22	6
4	Иван	Грозный	18	1
5	Сергей	Гармаш	18	2
6	Злата	Вишневская	20	5
7	Максим	Изотов	20	1
8	Марк	Цукернберг	21	3
9	Наталья	Попелюшко	22	7
10	Вадим	Станкевич	23	8
11	Ольга	Петрова	23	9
12	Богдан	Смела	24	10



Coach's task:	30. Write selects on tables: (video) a) select all fields from universities, b) select only the first and last names of students, c) select only those students whose name is Ivan, d) select only those groups whose numbers are greater than 300, e) select only universities with the letter U in their name. Provide the result as a screenshot	Feedback from the coach:	 29 ти чудово впоралась, молодець) 18:38 30 також все правильно, молодець) 18:39 чекаю наступну таску 18:40

ID	Attachments
a	**Select all fields from universities**
	SELECT * FROM universities



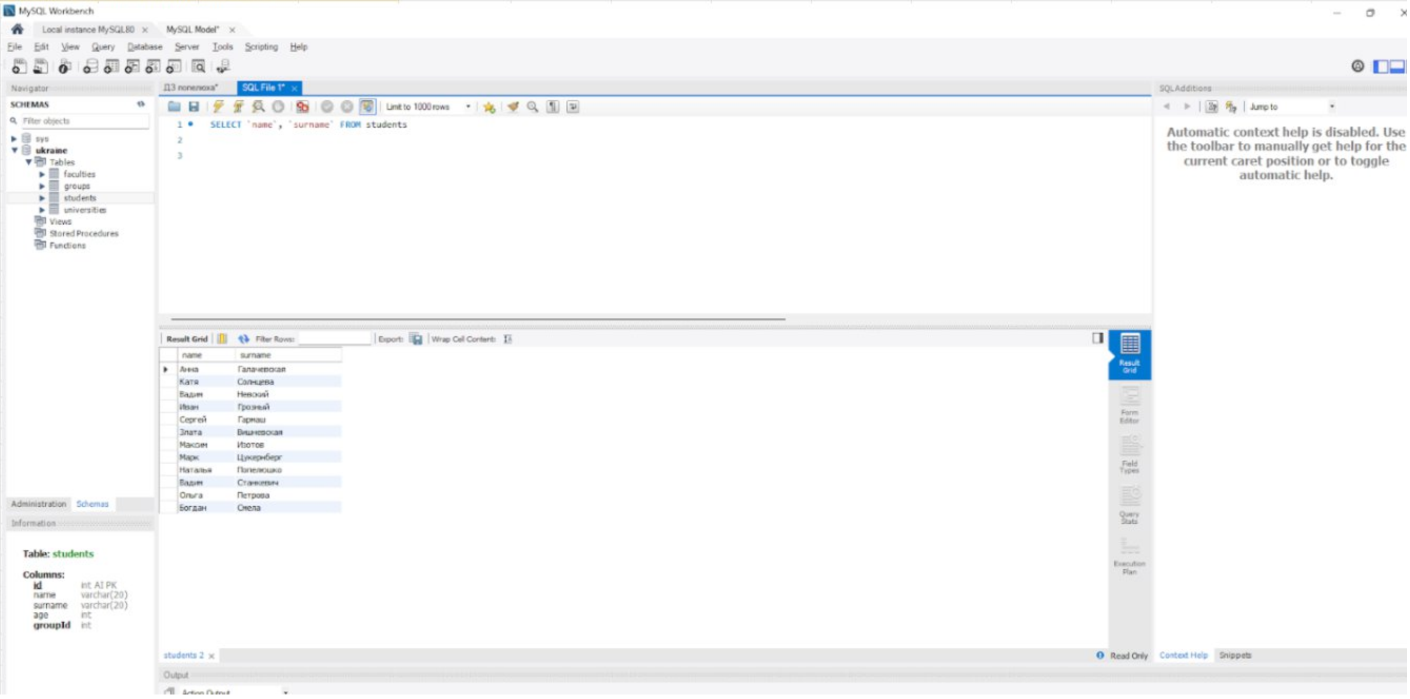
```
SELECT * FROM universities
```

id	uniName	city
1	ХНУ	Харків
2	МАУП	Київ
3	ПГТУ	Днепр
4	ХАИ	Харків
5	БИММ	Київ
NULL	NULL	NULL

Schema: ukraine

b **Select only the first and last names of students**

SELECT `name`, `surname` FROM students



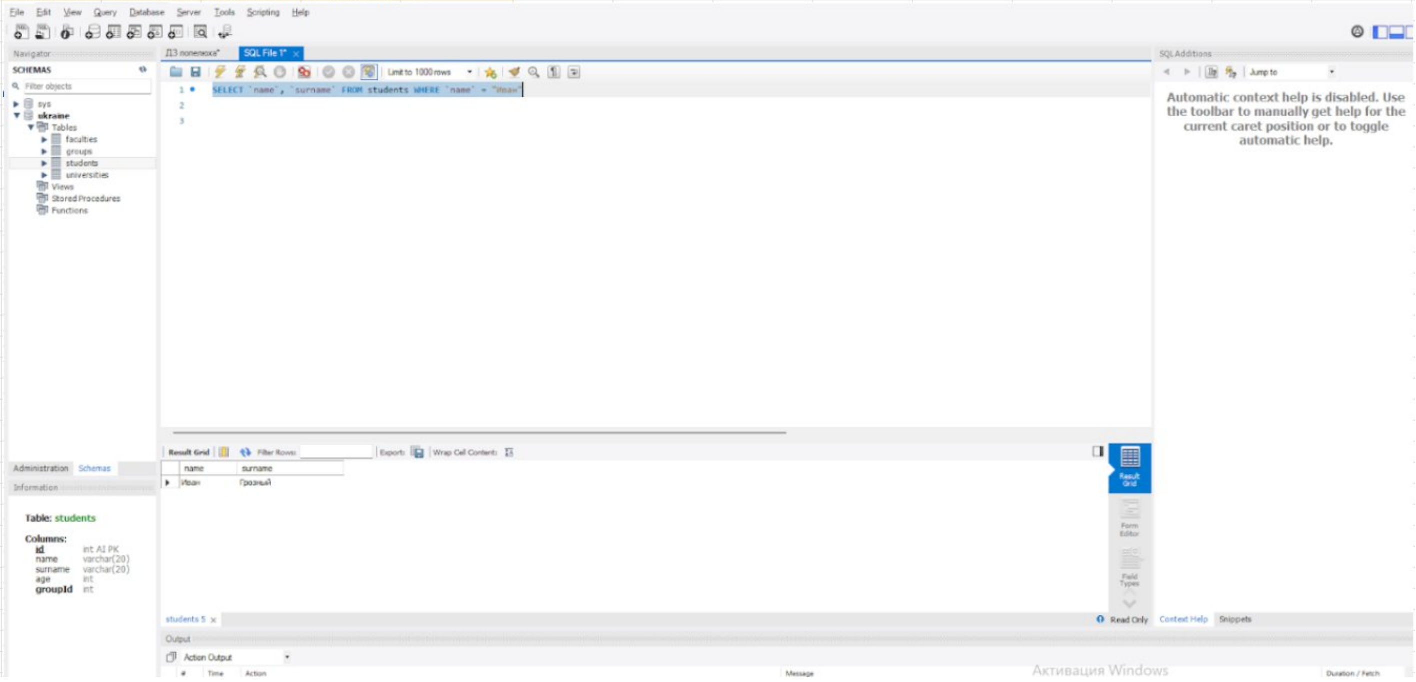
```
SELECT `name`, `surname` FROM students
```

name	surname
Анна	Галачевская
Катя	Солнцева
Вадим	Невский
Иван	Грозный
Сергей	Гармаш
Злата	Вишневская
Максим	Изотов
Марк	Цукербер
Наталья	Попелюшко
Вадим	Станкевич
Ольга	Петрова
Богдан	Смела

Table: students

Columns:
id int AI PK
name varchar(20)
surname varchar(20)
age int
groupId int

c	Select only those students whose name is Иван
	SELECT `name`, `surname` FROM students WHERE `name` = "Иван"



```
SELECT `name`, `surname` FROM students WHERE `name` = "Иван"
```

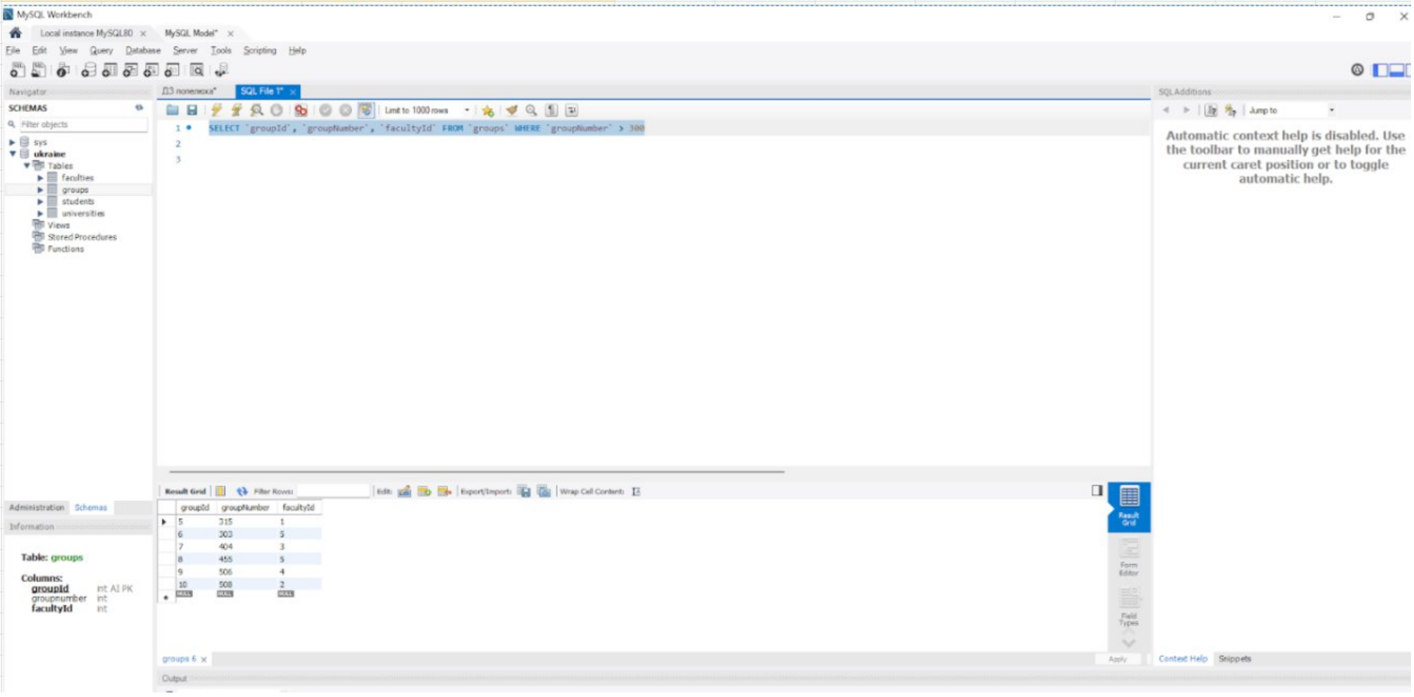
name	surname
Иван	Грозный

Table: students

Columns:
id int AI PK
name varchar(20)
surname varchar(20)
age int
groupId int

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

d	Select only those groups whose numbers are greater than 300
	SELECT `groupId`, `groupNumber`, `facultyId` FROM `groups` WHERE `groupNumber` > 300



```
SELECT `groupId`, `groupNumber`, `facultyId` FROM `groups` WHERE `groupNumber` > 300
```

groupId	groupNumber	facultyId
5	315	1
6	303	5
7	404	3
8	455	5
9	506	4
10	508	2
NULL	NULL	NULL

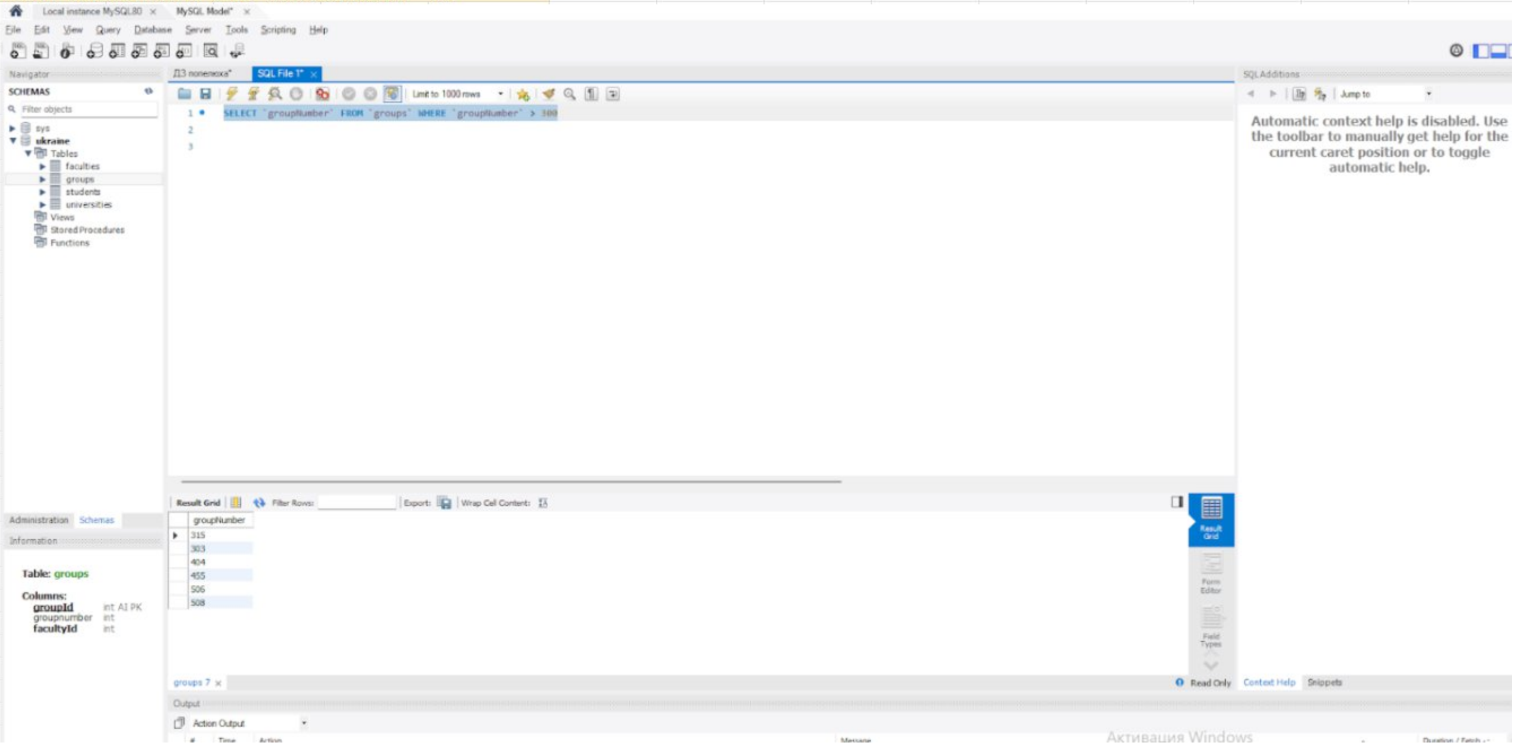
Table: groups

Columns:
groupId int AI PK
groupnumber int
facultyId int

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

Or only group numbers that are greater

```
SELECT `groupNumber` FROM `groups` WHERE `groupNumber` > 300
```



```
SELECT `groupNumber` FROM `groups` WHERE `groupNumber` > 300
```

groupNumber
315
303
404
455
506
508

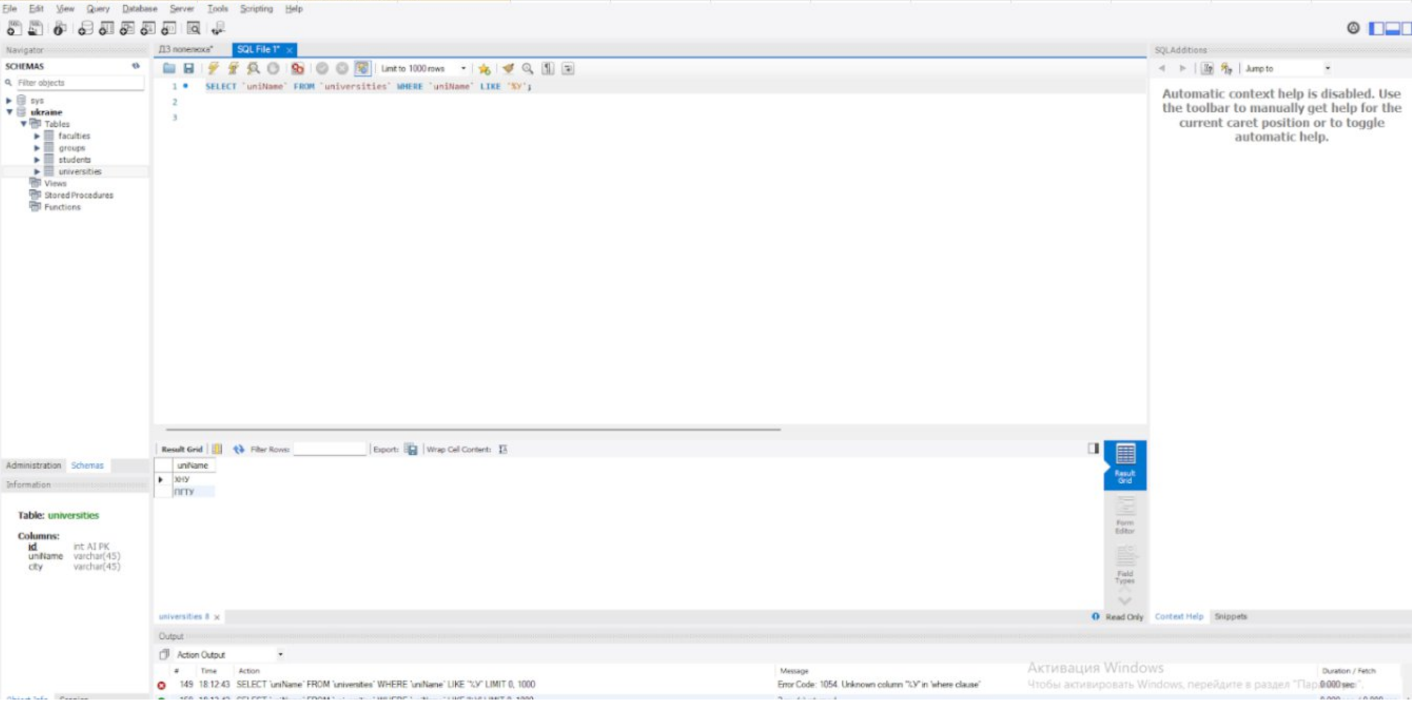
Table: groups

Columns:
groupId int AI PK
groupnumber int
facultyId int

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

e **Select only those universities that contain the letter U in their name**

```
SELECT `uniName` FROM `universities` WHERE `uniName` LIKE '%У';
```



```
SELECT `uniName` FROM `universities` WHERE `uniName` LIKE '%У';
```

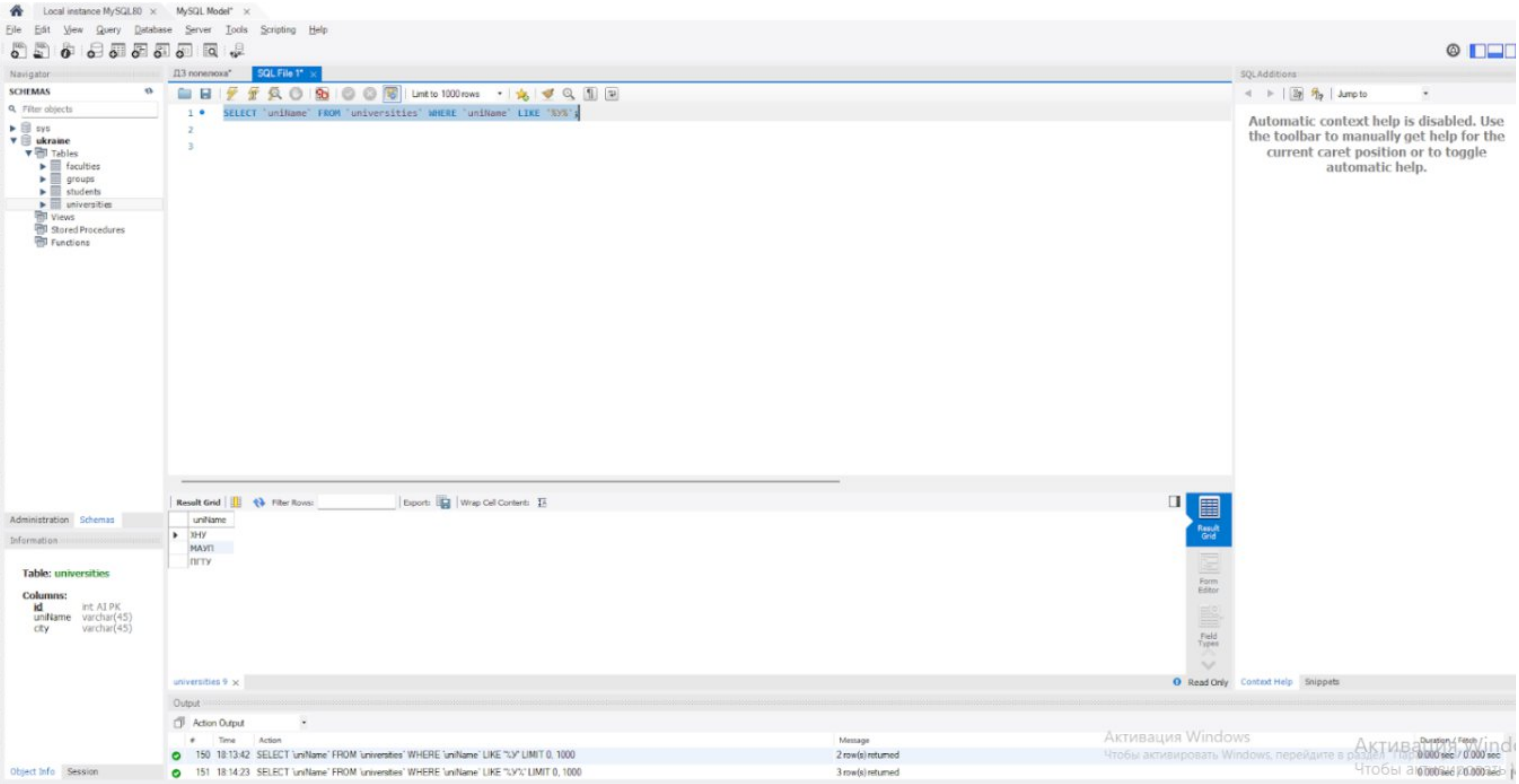
uniName
ХНУ
ПГТУ

Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

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

```
#    Time      Action                                                                    Message                                                        Duration / Fetch
149  18:12:43  SELECT `uniName` FROM `universities` WHERE `uniName` LIKE "%У" LIMIT 0, 1000   Error Code: 1054. Unknown column "%У" in 'where clause'   0.000 sec
```



```sql
SELECT `uniName` FROM `universities` WHERE `uniName` LIKE '%У%';
```

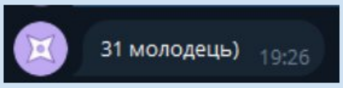
	uniName
▶	ХНУ
	МАУП
	ПГТУ

Table: universities

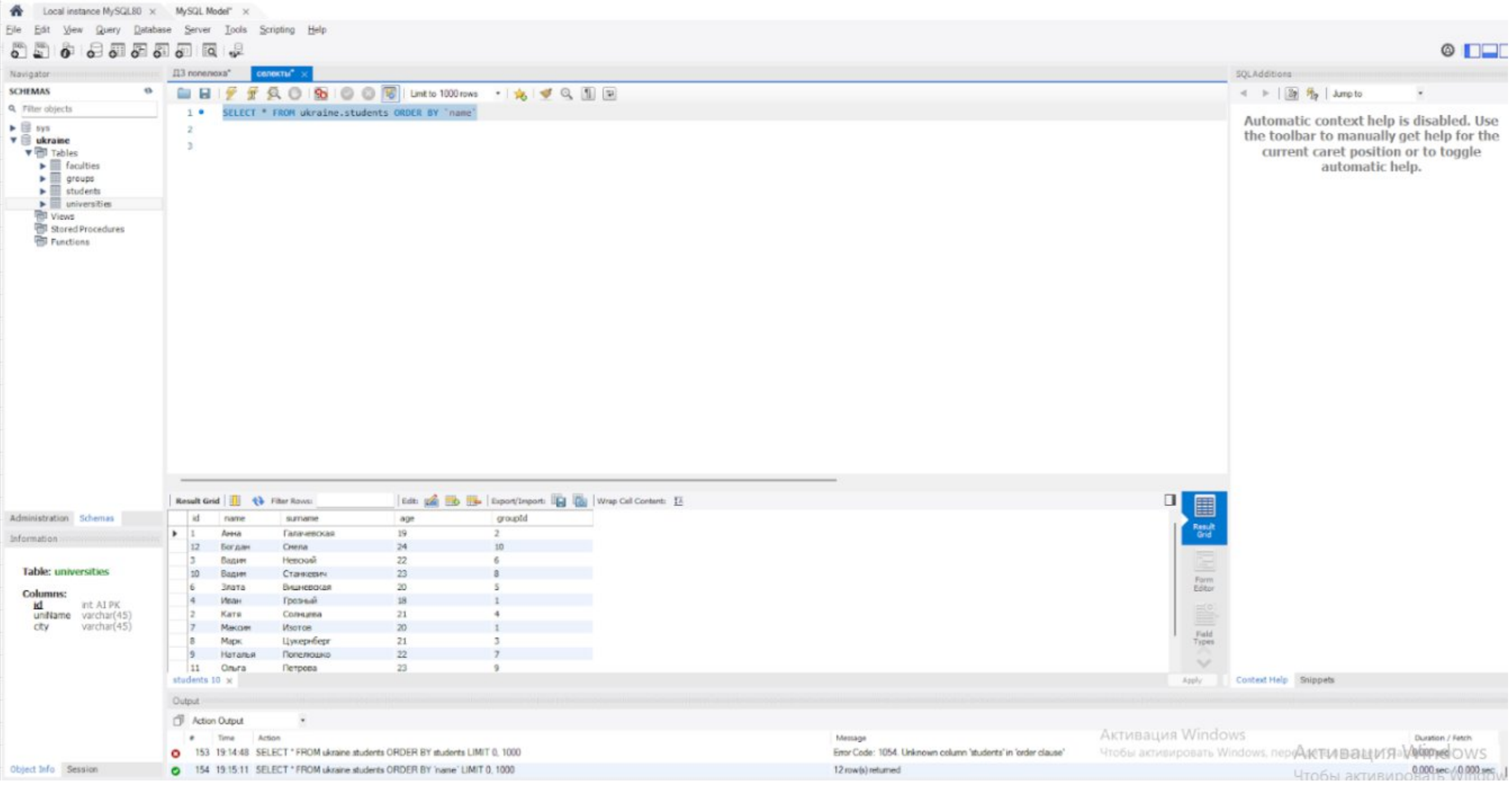
Columns:

id	int AI PK
uniName	varchar(45)
city	varchar(45)

```
#    Time      Action                                                                       Message
150  18:13:42  SELECT `uniName` FROM `universities` WHERE `uniName` LIKE '%У' LIMIT 0, 1000    2 row(s) returned
151  18:14:23  SELECT `uniName` FROM `universities` WHERE `uniName` LIKE '%У%' LIMIT 0, 1000   3 row(s) returned
```

Coach's task:	31. Sort the table students alphabetically and in reverse order. Provide the result as a screenshot (video)	Feedback from the coach:	 31 молодець) 19:26

Sort order	Attatchments
In alphabetical order	SELECT * FROM ukraine.students ORDER BY `name`

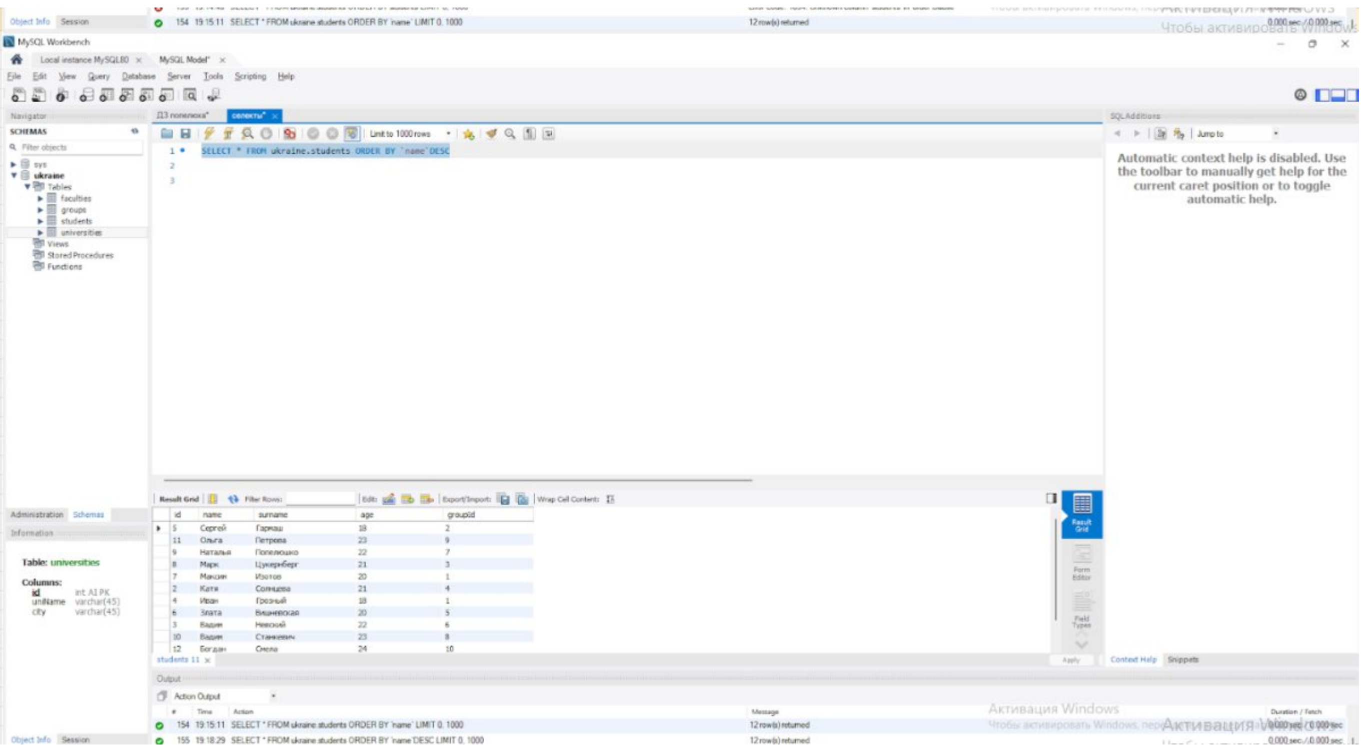


```sql
SELECT * FROM ukraine.students ORDER BY `name`
```

	id	name	surname	age	groupId
▶	1	Анна	Галачевская	19	2
	12	Богдан	Смела	24	10
	3	Вадим	Невский	22	6
	10	Вадим	Станкевич	23	8
	6	Злата	Вишневская	20	5
	4	Иван	Грозный	18	1
	2	Катя	Солнцева	21	4
	7	Максим	Изотов	20	1
	8	Марк	Цукерберг	21	3
	9	Наталья	Попелюшко	22	7
	11	Ольга	Петрова	23	9

```
#    Time      Action                                                        Message
153  19:14:48  SELECT * FROM ukraine.students ORDER BY students LIMIT 0, 1000   Error Code: 1054. Unknown column 'students' in 'order clause'
154  19:15:11  SELECT * FROM ukraine.students ORDER BY `name` LIMIT 0, 1000     12 row(s) returned
```

lin reverse order



```
1 • SELECT * FROM ukraine.students ORDER BY `name`DESC
```

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

Table: universities

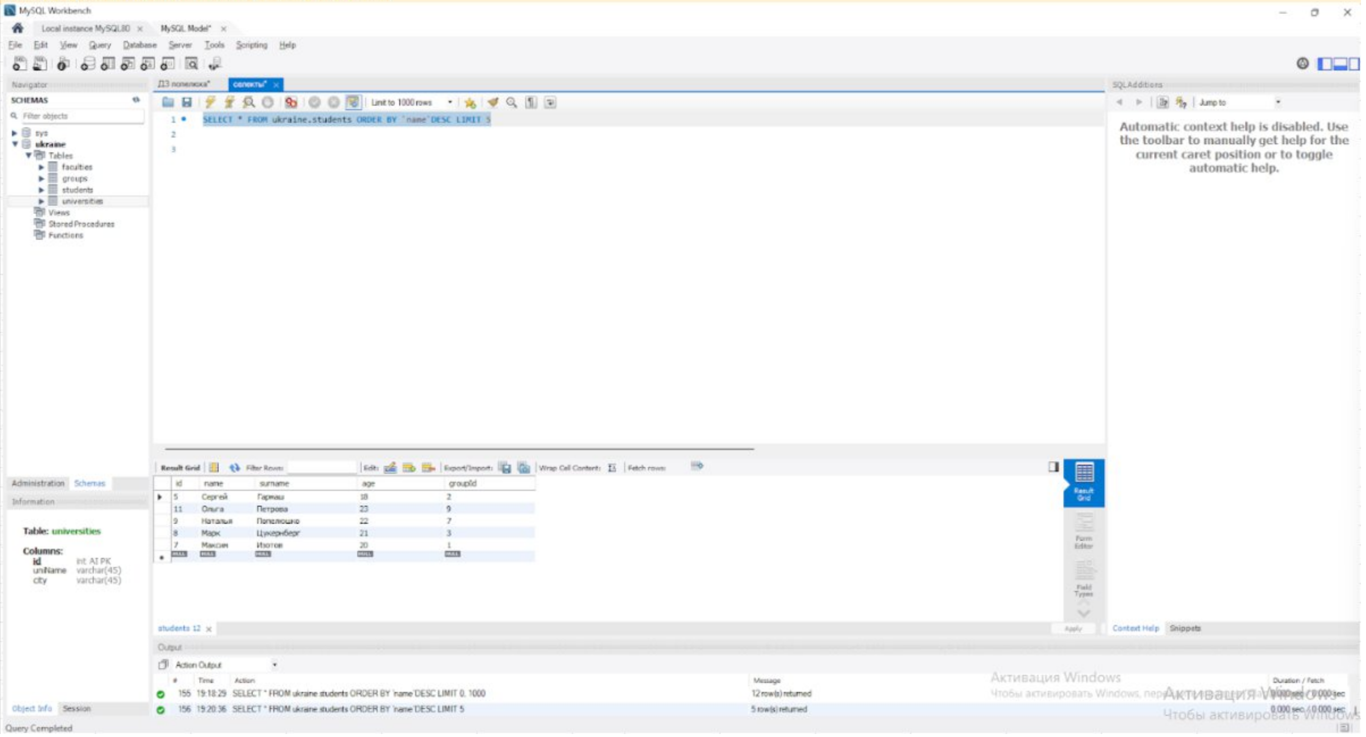
Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

id	name	surname	age	groupid
5	Сергей	Гармаш	18	2
11	Ольга	Петрова	23	9
9	Наталья	Попелюшко	22	7
8	Марк	Цукерберг	21	3
7	Максим	Изотов	20	1
2	Катя	Солнцева	21	4
4	Иван	Грозный	18	1
6	Злата	Вишневская	20	5
3	Вадим	Невский	22	6
10	Вадим	Станкевич	23	8
12	Богдан	Смела	24	10

students 11

```
Output
Action Output
#    Time      Action                                                         Message               Duration / Fetch
154  19:15:11  SELECT * FROM ukraine.students ORDER BY `name` LIMIT 0, 1000      12 row(s) returned    0.000 sec / 0.000 sec
155  19:18:29  SELECT * FROM ukraine.students ORDER BY `name`DESC LIMIT 0, 1000  12 row(s) returned    0.000 sec / 0.000 sec
```

Top 5 on the list SELECT * FROM ukraine.students ORDER BY `name`DESC LIMIT 5



```
1 • SELECT * FROM ukraine.students ORDER BY `name`DESC LIMIT 5
```

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

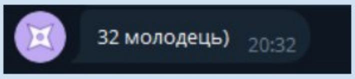
Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

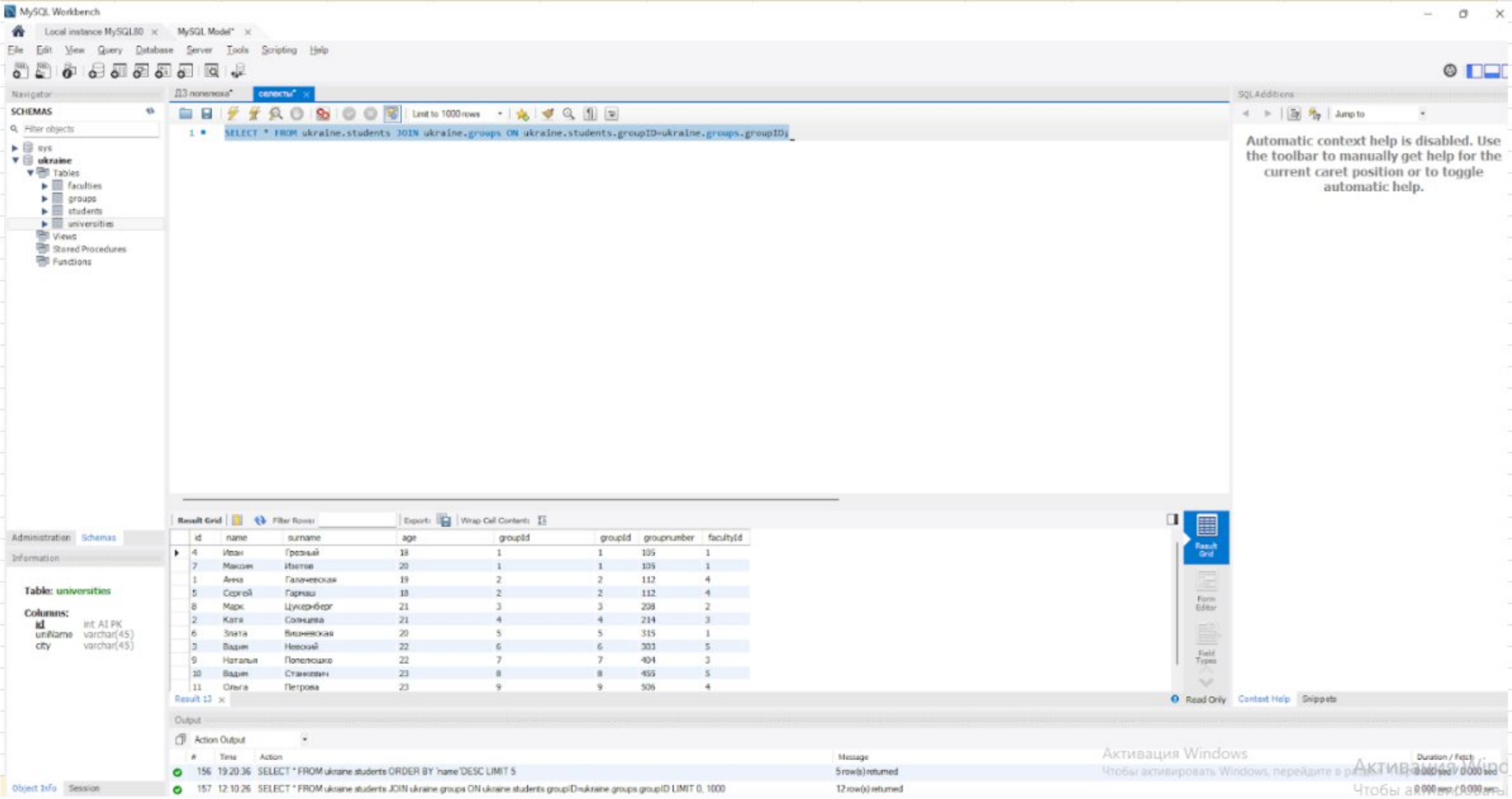
id	name	surname	age	groupid
5	Сергей	Гармаш	18	2
11	Ольга	Петрова	23	9
9	Наталья	Попелюшко	22	7
8	Марк	Цукерберг	21	3
7	Максим	Изотов	20	1
NULL	NULL	NULL	NULL	NULL

students 12

```
Output
Action Output
#    Time      Action                                                         Message               Duration / Fetch
155  19:18:29  SELECT * FROM ukraine.students ORDER BY `name`DESC LIMIT 0, 1000  12 row(s) returned    0.000 sec / 0.000 sec
156  19:20:36  SELECT * FROM ukraine.students ORDER BY `name`DESC LIMIT 5         5 row(s) returned     0.000 sec / 0.000 sec
```

Coach's tasks:	32. Create a query that joins the tables students and groups using join. Provide the result as a screenshot (video)	Feedback from the coach:	 32 молодець) 20:32

Sort order	Attatchments
INNER JOIN	SELECT * FROM ukraine.students JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;



MySQL Workbench

```
SELECT * FROM ukraine.students JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;
```

id	name	surname	age	groupId	groupId	groupnumber	facultyId
4	Иван	Грозный	18	1	1	105	1
7	Максим	Изотов	20	1	1	105	1
1	Анна	Галачевская	19	2	2	112	4
5	Сергей	Гармаш	18	2	2	112	4
8	Марк	Цукерберг	21	3	3	208	2
2	Катя	Солнцева	21	4	4	214	3
6	Злата	Вишневская	20	5	5	315	1
3	Вадим	Невский	22	6	6	303	5
9	Наталья	Попелюшко	22	7	7	404	3
10	Вадим	Станкевич	23	8	8	455	5
11	Ольга	Петрова	23	9	9	506	4

Result 13

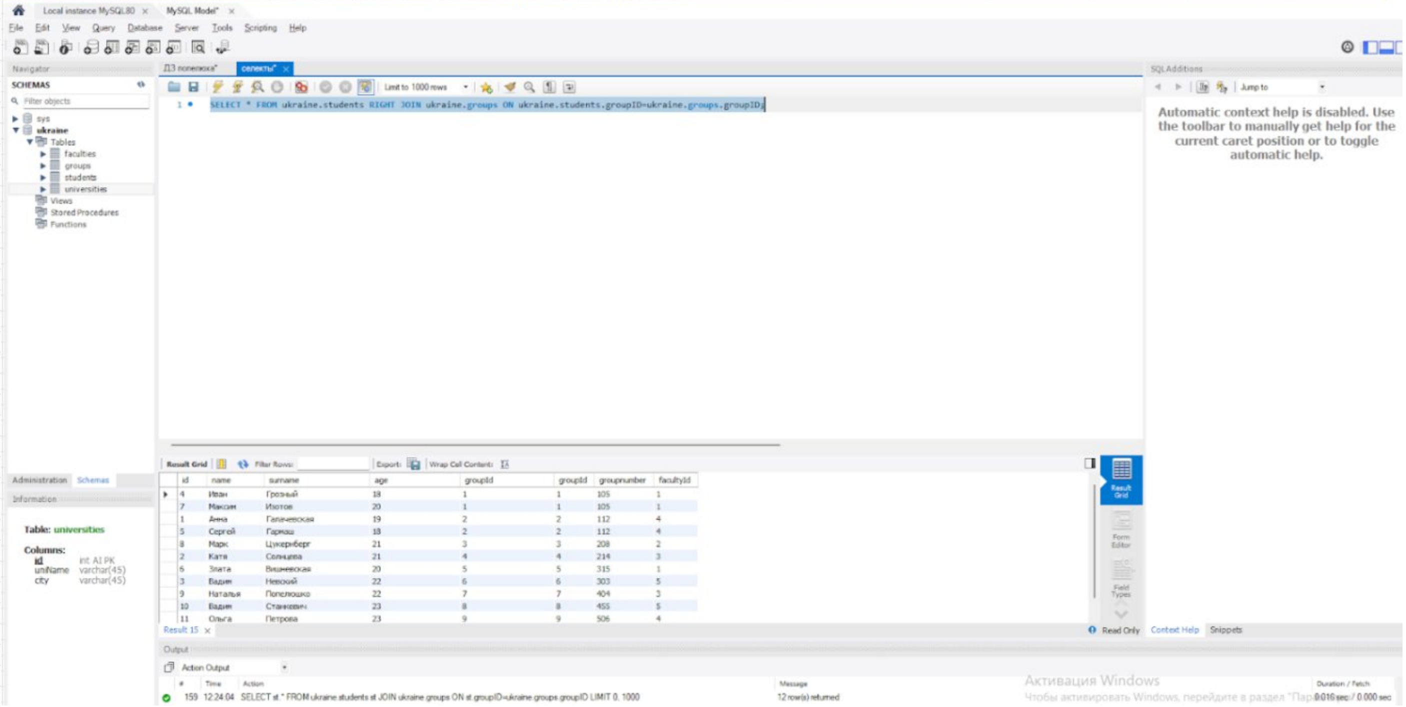
Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

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

```
#    Time      Action                                                                                                    Message
156  19:20:36  SELECT * FROM ukraine.students ORDER BY 'name' DESC LIMIT 5                                               5 row(s) returned
157  12:10:26  SELECT * FROM ukraine.students JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID LIMIT 0, 1000   12 row(s) returned
```

RIGHT JOIN SELECT * FROM ukraine.students RIGHT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;



```
SELECT * FROM ukraine.students RIGHT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;
```

id	name	surname	age	groupId	groupId	groupnumber	facultyId
4	Иван	Грозный	18	1	1	105	1
7	Максим	Изотов	20	1	1	105	1
1	Анна	Галачевская	19	2	2	112	4
5	Сергей	Гармаш	18	2	2	112	4
8	Марк	Цукерберг	21	3	3	208	2
2	Катя	Солнцева	21	4	4	214	3
6	Злата	Вишневская	20	5	5	315	1
3	Вадим	Невский	22	6	6	303	5
9	Наталья	Попелюшко	22	7	7	404	3
10	Вадим	Станкевич	23	8	8	455	5
11	Ольга	Петрова	23	9	9	506	4

Result 15

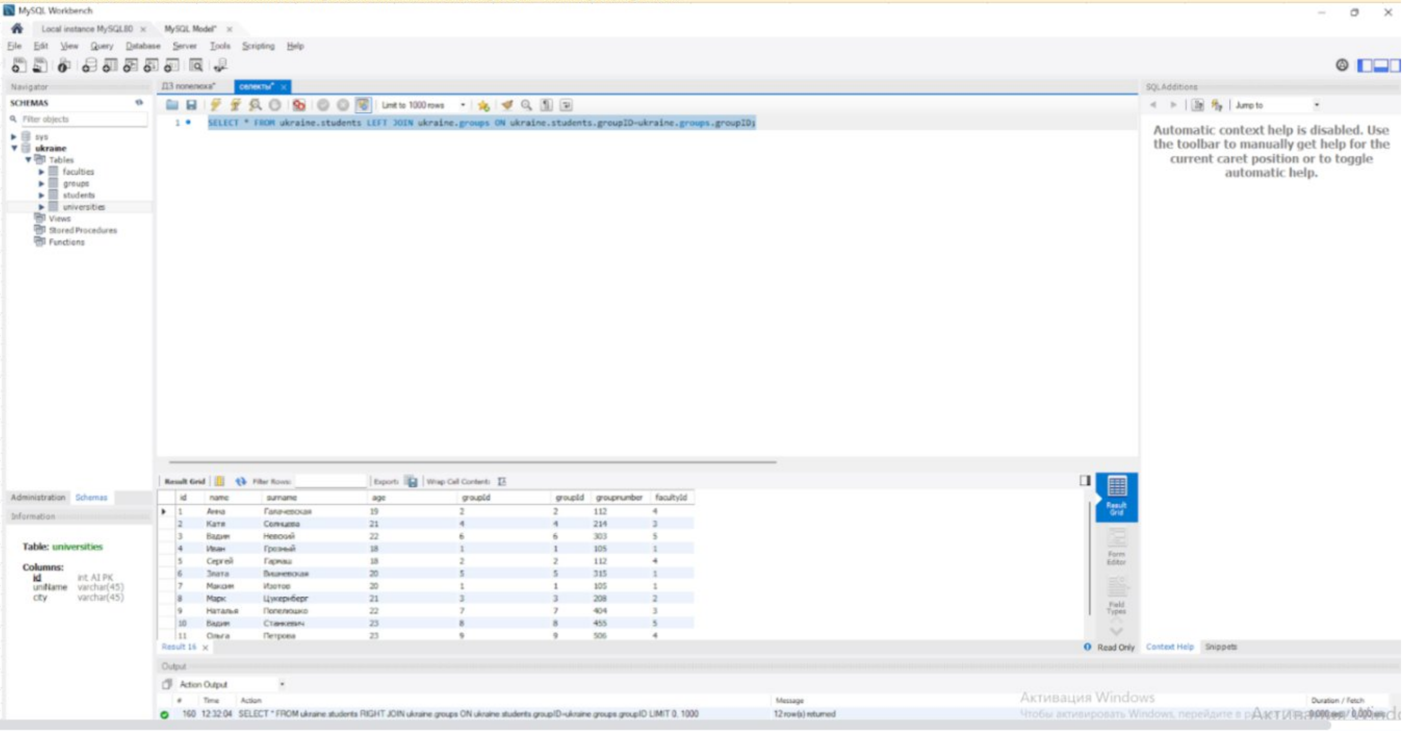
Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

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

```
#    Time      Action                                                                                      Message            Duration / Fetch
159  12:24:04  SELECT st.* FROM ukraine.students st JOIN ukraine.groups ON st.groupID=ukraine.groups.groupID LIMIT 0, 1000   12 row(s) returned   0.016 sec / 0.000 sec
```

LEFT JOIN	SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;



```
SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;
```

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

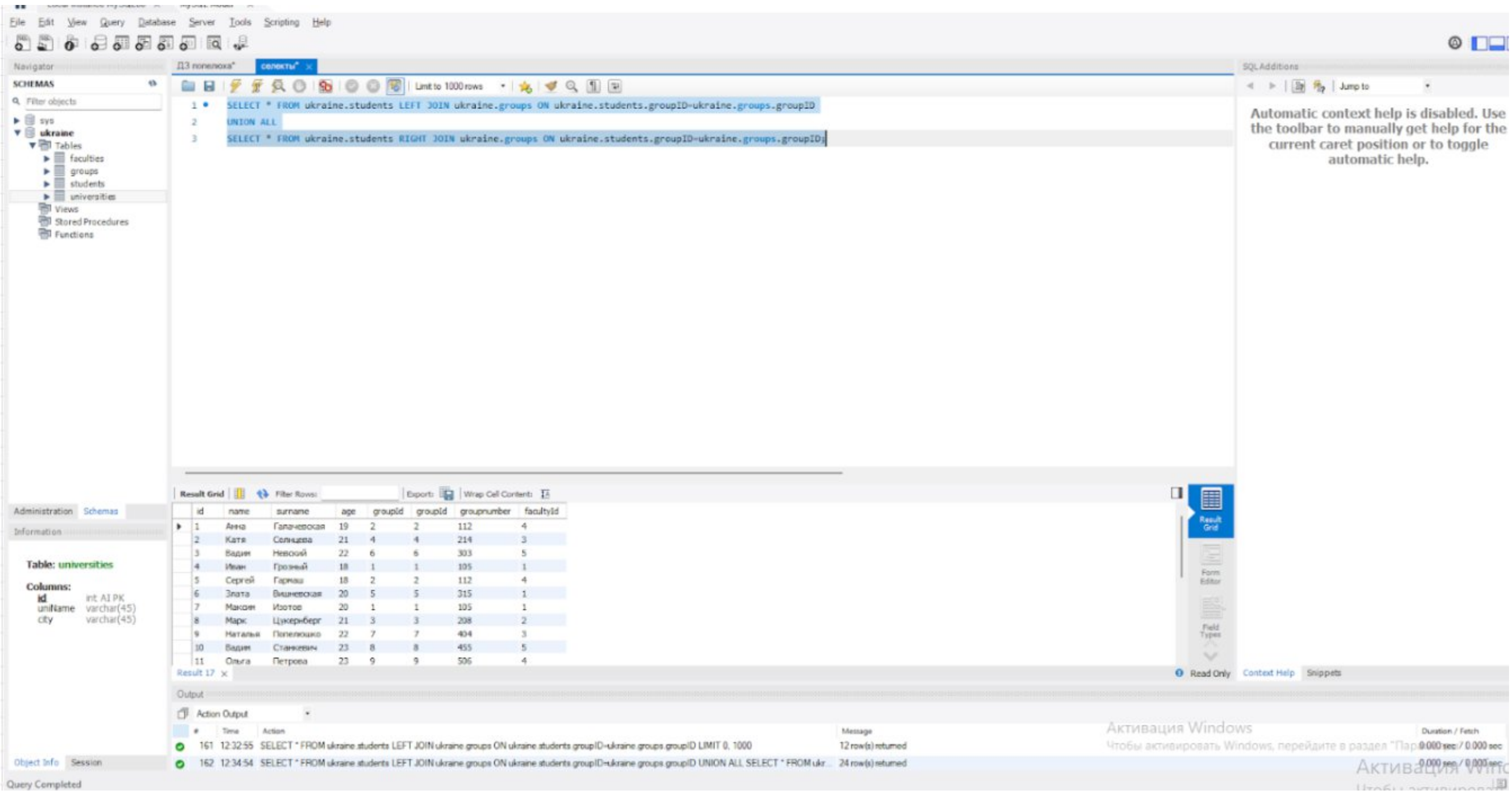
Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

id	name	surname	age	groupId	groupId	groupnumber	facultyId
1	Анна	Галачевская	19	2	2	112	4
2	Катя	Солнцева	21	4	4	214	3
3	Вадим	Невский	22	6	6	303	5
4	Иван	Грозный	18	1	1	105	1
5	Сергей	Гармаш	18	2	2	112	4
6	Злата	Вишневская	20	5	5	315	1
7	Максим	Изотов	20	1	1	105	1
8	Марк	Цукерберг	21	3	3	208	2
9	Наталья	Попелюшко	22	7	7	404	3
10	Вадим	Станкевич	23	8	8	455	5
11	Ольга	Петрова	23	9	9	506	4

```
#    Time      Action                                                                                                       Message              Duration / Fetch
160  12:32:04  SELECT * FROM ukraine.students RIGHT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID LIMIT 0, 1000   12 row(s) returned   0.000 sec / 0.000 sec
```

FULL JOIN	SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID
	UNION ALL
	SELECT * FROM ukraine.students RIGHT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;



```
SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID
UNION ALL
SELECT * FROM ukraine.students RIGHT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID;
```

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

Table: universities

Columns:
id int AI PK
uniName varchar(45)
city varchar(45)

id	name	surname	age	groupId	groupId	groupnumber	facultyId
1	Анна	Галачевская	19	2	2	112	4
2	Катя	Солнцева	21	4	4	214	3
3	Вадим	Невский	22	6	6	303	5
4	Иван	Грозный	18	1	1	105	1
5	Сергей	Гармаш	18	2	2	112	4
6	Злата	Вишневская	20	5	5	315	1
7	Максим	Изотов	20	1	1	105	1
8	Марк	Цукерберг	21	3	3	208	2
9	Наталья	Попелюшко	22	7	7	404	3
10	Вадим	Станкевич	23	8	8	455	5
11	Ольга	Петрова	23	9	9	506	4

```
#    Time      Action                                                                                                                    Message              Duration / Fetch
161  12:32:55  SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID LIMIT 0, 1000             12 row(s) returned   0.000 sec / 0.000 sec
162  12:34:54  SELECT * FROM ukraine.students LEFT JOIN ukraine.groups ON ukraine.students.groupID=ukraine.groups.groupID UNION ALL SELECT * FROM ukr...   24 row(s) returned   0.000 sec / 0.000 sec
```