

МІНІСТЕРСТВО ОСВІТИ І НАУКИ  
НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ «ЛЬВІВСЬКА  
ПОЛІТЕХНІКА»

Кафедра систем штучного інтелекту



Лабораторна робота №4  
З курсу “Організація баз даних та знань”  
Варіант 19

Виконав:  
ст.гр. КН-210  
Петров Кирило  
Перевірила:  
Мельникова Н. І.

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**Тема:** “Запити на додавання, зміну та видалення даних”.

**Мета:** Розробити SQL-запити для внесення нових значень в таблиці в режимі одиничного та групового доповнення; розробити SQL-запити для внесення змін в рядки таблиць; розробити SQL-запити для видалення вибраних рядків.

### Виконання

Додаємо дні тижня у таблицю week\_days

```
mysql> insert into lab2.week_days (week_day) values('Monday'),
-> ('Tuesday'), ('Wednesday'), ('Thursday'), ('Friday'), ('Saturday'), ('Sunday');
Query OK, 7 rows affected (0.26 sec)
Records: 7 Duplicates: 0 Warnings: 0

mysql> select* from lab2.week_days;
+----+-----+
| id | week_day |
+----+-----+
| 1  | Monday   |
| 2  | Tuesday  |
| 3  | Wednesday|
| 4  | Thursday |
| 5  | Friday   |
| 6  | Saturday |
| 7  | Sunday   |
+----+-----+
7 rows in set (0.00 sec)
```

Додаємо назви спеціальностей

```
mysql> insert into lab2.speciality (name) values ('Design'), ('Philosophy'), ('Computer science'),
-> ('Economy'), ('Finance and banking'), ('Mathematic'), ('Electronics');
Query OK, 7 rows affected (0.21 sec)
Records: 7 Duplicates: 0 Warnings: 0

mysql> select* from lab2.speciality;
+----+-----+
| id | name                |
+----+-----+
| 1  | Design              |
| 2  | Philosophy           |
| 3  | Computer science    |
| 4  | Economy              |
| 5  | Finance and banking |
| 6  | Mathematic           |
| 7  | Electronics         |
+----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select* from lab2.curriculum;
+----+-----+-----+-----+-----+
| id | subject_name          | speciality_id | year | type    |
+----+-----+-----+-----+-----+
| 1  | Data Base             | 3             | 2018 | Bachelor|
| 2  | Web Design            | 3             | 2018 | Bachelor|
| 3  | System analysis       | 3             | 2018 | Bachelor|
| 4  | Computer networks     | 3             | 2018 | Bachelor|
| 5  | Computer circuitry    | 7             | 2018 | Bachelor|
| 6  | Philosophy            | 7             | 2018 | Bachelor|
| 7  | MMOR                  | 6             | 2018 | Bachelor|
+----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

Заповнюємо таблицю з корпусами НУ ЛП.

```
mysql> insert into lab2.buildings (building_number, address) values (0, '12, Stepana Bandery street'),
-> (1, '24, Karpinskogo street'), (2, '6, Karpinskogo street'), (3, '1, St. Georges Square'), (4, '5, Mytrop
olita Andriya'),
-> (5, '28a, Stepana Bandery street'), (6, '32, Stepana Bandery street'), (7, '55, Stepana Bandery street'),
-> (19, '1/3, Knyazya Romana street'), (20, '5, Knyazya Romana street'), (28, '3, Mytropolita Andriya');
Query OK, 11 rows affected (0.23 sec)
Records: 11 Duplicates: 0 Warnings: 0

mysql> select* from lab2.buildings;
+----+-----+-----+
| id | building_number | address                    |
+----+-----+-----+
| 1  | 0               | 12, Stepana Bandery street |
| 2  | 1               | 24, Karpinskogo street    |
| 3  | 2               | 6, Karpinskogo street     |
| 4  | 3               | 1, St. Georges Square     |
| 5  | 4               | 5, Mytropolita Andriya    |
| 6  | 5               | 28a, Stepana Bandery street |
| 7  | 6               | 32, Stepana Bandery street |
| 8  | 7               | 55, Stepana Bandery street |
| 9  | 19              | 1/3, Knyazya Romana street |
| 10 | 20              | 5, Knyazya Romana street  |
| 11 | 28              | 3, Mytropolita Andriya    |
+----+-----+-----+
11 rows in set (0.00 sec)
```

Заповнюємо таблицю з кафедрами

```
mysql> insert into lab2.cathedra (cathedra_name, building_id) values ('Artificial Intelingence System', (select
id from lab2.buildings where building_number = 20));
Query OK, 1 row affected (0.18 sec)

mysql> insert into lab2.cathedra (cathedra_name, building_id) values ('Computer aided design systems', (select i
d from lab2.buildings where building_number = 4));
Query OK, 1 row affected (0.28 sec)

mysql> insert into lab2.cathedra (cathedra_name, building_id) values ('Philosophy', (select id from lab2.buildin
gs where building_number = 4));
Query OK, 1 row affected (0.30 sec)

mysql> insert into lab2.cathedra (cathedra_name, building_id) values ('Applied Mathematic', (select id from lab2
.buildings where building_number = 4));
Query OK, 1 row affected (0.28 sec)

mysql> select* from lab2.cathedra;
+----+-----+-----+
| id | cathedra_name          | building_id |
+----+-----+-----+
| 1  | Artificial Intelingence System | 10          |
| 2  | Computer aided design systems | 5           |
| 3  | Philosophy              | 5           |
| 4  | Applied Mathematic       | 5           |
+----+-----+-----+
4 rows in set (0.00 sec)
```

Заповнюємо таблицю з викладачами.

```
mysql> insert into lab2.teachers (name, degree, length_of_service, cathedra_id) values(
-> ('Melnykova N. I.', 'Candidate of Technical Sciences', 11, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System'));
Query OK, 1 row affected (0.13 sec)

mysql> insert into lab2.teachers (name, degree, length_of_service, cathedra_id) values
-> ('Gasko R. T.', 'Researcher', 7, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System')),
-> ('Boyko N. I.', 'Candidate of Economy Sciences', 10, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System')),
-> ('Rzheuskiy A. V.', 'Candidate of Social Communications', 7, (select id from lab2.cathedra where cathedra_name = 'Computer aided design systems')),
-> ('Panchak R. T.', 'Senior Lecturer', 43, (select id from lab2.cathedra where cathedra_name = 'Computer aided design systems')),
-> ('Karivets I. V.', 'Doctor of Philosophy', 23, (select id from lab2.cathedra where cathedra_name = 'Philosophy')),
-> ('Peleshyshyn O. P.', 'Candidate of technical sciences', 18, (select id from lab2.cathedra where cathedra_name = 'Applied Mathematic'));
Query OK, 6 rows affected (0.18 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> select* from teachers;
```

id	name	degree	length_of_service	cathedra_id
2	Melnykova N. I.	Candidate of Technical Sciences	11	1
3	Gasko R. T.	Researcher	7	1
4	Boyko N. I.	Candidate of Economy Sciences	10	1
5	Rzheuskiy A. V.	Candidate of Social Communications	7	2
6	Panchak R. T.	Senior Lecturer	43	2
7	Karivets I. V.	Doctor of Philosophy	23	3
8	Peleshyshyn O. P.	Candidate of technical sciences	18	4

```
7 rows in set (0.00 sec)
```

Додаємо предмети, де в поле **speciality\_id** додаємо ідентифікатори спеціальностей з таблиці **speciality** на яку посилається. І в поле **teacher\_id** додаємо ідентифікатори викладачів з таблиці **teachers** на яку також посилається зовнішній ключ.

```
mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('Data Bases', (select id from lab2.speciality where name = 'Computer science'),
-> (select id from lab2.teachers where name = 'Melnykova N. I.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.10 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('Web Design', (select id from lab2.speciality where name = 'Computer science'),
-> (select id from lab2.teachers where name = 'Gasko R. T.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.30 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('System analysis', (select id from lab2.speciality where name = 'Computer science'),
-> (select id from lab2.teachers where name = 'Boyko N. I.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.59 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('Computer networks', (select id from lab2.speciality where name = 'Computer science'),
-> (select id from lab2.teachers where name = 'Rzheuskiy A. V.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.20 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('Computer circuitry', (select id from lab2.speciality where name = 'Electronics'),
-> (select id from lab2.teachers where name = 'Panchak R. T.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.14 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('Philosophy', (select id from lab2.speciality where name = 'Philosophy'),
-> (select id from lab2.teachers where name = 'Karivets I. V.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.19 sec)

mysql> insert into lab2.curriculum (subject_name, speciality_id, teacher_id, year, type) values
-> ('MMOR', (select id from lab2.speciality where name = 'Mathematic'),
-> (select id from lab2.teachers where name = 'Peleshyshyn O. P.'), 2018, 'Bachelor');
Query OK, 1 row affected (0.18 sec)
```

```
mysql> select* from lab2.curriculum;
```

id	subject_name	speciality_id	teacher_id	year	type
1	Data Bases	3	2	2018	Bachelor
2	Web Design	3	3	2018	Bachelor
3	System analysis	3	4	2018	Bachelor
4	Computer networks	3	5	2018	Bachelor
5	Computer circuitry	7	6	2018	Bachelor
6	Philosophy	2	7	2018	Bachelor
7	MMOR	6	8	2018	Bachelor

```
7 rows in set (0.00 sec)
```

Заповнюємо таблицю з групами, де поле **speciality\_id** посилається на поле ідентифікатор спеціальностей у таблиці **speciality**.

```
mysql> insert into lab2.groupes (group_name, course, cathedra_id, students_amount) values
-> ('KN-208', 2, (select id from lab2.cathedra where cathedra_name = 'Artificail Intelingence System'), 28);
ERROR 1048 (23000): Column 'cathedra_id' cannot be null
mysql> insert into lab2.groupes (group_name, course, cathedra_id, students_amount) values
-> ('KN-208', 2, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System'), 28);
Query OK, 1 row affected (0.20 sec)

mysql> insert into lab2.groupes (group_name, course, cathedra_id, students_amount) values
-> ('KN-209', 2, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System'), 29);
Query OK, 1 row affected (0.23 sec)

mysql> insert into lab2.groupes (group_name, course, cathedra_id, students_amount) values
-> ('KN-210', 2, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System'), 28);
Query OK, 1 row affected (0.18 sec)

mysql> insert into lab2.groupes (group_name, course, cathedra_id, students_amount) values
-> ('KN-211', 2, (select id from lab2.cathedra where cathedra_name = 'Artificial Intelingence System'), 30);
Query OK, 1 row affected (0.25 sec)

mysql> select* from lab2.groupes;
```

id	group_name	course	cathedra_id	students_amount
1	KN-208	2	1	28
2	KN-209	2	1	29
3	KN-210	2	1	28
4	KN-211	2	1	30

```
4 rows in set (0.00 sec)
```

Наповнюємо таблицю **classrooms** класами та аудиторіями.

```
mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (117, (select id from lab2.buildings where building_number = 1), 120);
Query OK, 1 row affected (0.24 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (409, (select id from lab2.buildings where building_number = 28), 17);
Query OK, 1 row affected (0.16 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (201, (select id from lab2.buildings where building_number = 20), 17);
Query OK, 1 row affected (0.16 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (501, (select id from lab2.buildings where building_number = 4), 15);
Query OK, 1 row affected (0.36 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (0, (select id from lab2.buildings where building_number = 20), 120);
Query OK, 1 row affected (0.30 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (124, (select id from lab2.buildings where building_number = 20), 25);
Query OK, 1 row affected (0.17 sec)
```



```
mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (124, (select id from lab2.buildings where building_number = 20), 25);
Query OK, 1 row affected (0.17 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> (123b, (select id from lab2.buildings where building_number = 20), 50);
ERROR 1054 (42S22): Unknown column '123b' in 'field list'
mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> ('123b', (select id from lab2.buildings where building_number = 20), 50);
Query OK, 1 row affected (0.22 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> ('321', (select id from lab2.buildings where building_number = 4), 25);
Query OK, 1 row affected (0.21 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> ('125', (select id from lab2.buildings where building_number = 20), 25);
Query OK, 1 row affected (0.14 sec)

mysql> insert into lab2.classrooms (classroom_number, building_id, capacity) values
-> ('109', (select id from lab2.buildings where building_number = 1), 35);
Query OK, 1 row affected (0.20 sec)

mysql> select* from lab2.classrooms;
+-----+-----+-----+-----+
| id | classroom_number | building_id | capacity |
+-----+-----+-----+-----+
| 1 | 117 | 2 | 120 |
| 2 | 409 | 11 | 17 |
| 3 | 201 | 10 | 17 |
| 4 | 501 | 5 | 15 |
| 5 | 0 | 10 | 120 |
| 6 | 124 | 10 | 25 |
| 7 | 123b | 10 | 50 |
| 8 | 321 | 5 | 25 |
| 9 | 125 | 10 | 25 |
| 10 | 109 | 2 | 35 |
+-----+-----+-----+-----+
10 rows in set (0.02 sec)
```

Заповнення таблиці **schedule** даними з усіх інших таблиць.

```
mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Monday'), 1, (select id from curriculum where subject_name =
'Computer networks'), 'Lecture', (select id from teachers where name = 'Burov Y. V.'), (select id from groupes
where group_name = 'KN-210'), (select id from classrooms where classroom_number = 117), 'no_matter');
Query OK, 1 row affected (0.15 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Monday'), 2, (select id from curriculum where subject_name =
'Computer circuitry'), 'Lecture', (select id from teachers where name = 'Panchak R. T.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 117), 'no_matter');
Query OK, 1 row affected (0.35 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Tuesday'), 1, (select id from curriculum where subject_name
= 'System analysis'), 'Laboratory', (select id from teachers where name = 'Shvorob I. B.'), (select id from grou
pes where group_name = 'KN-210'), (select id from classrooms where classroom_number = 201), 'denominator');
Query OK, 1 row affected (0.15 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Tuesday'), 1, (select id from curriculum where subject_name
= 'Computer circuitry'), 'Laboratory', (select id from teachers where name = 'Holovaty A. I.'), (select id fro
m groupes where group_name = 'KN-210'), (select id from classrooms where classroom_number = 501), 'numerator');
Query OK, 1 row affected (0.16 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Tuesday'), 3, (select id from curriculum where subject_name
= 'Data Base'), 'Lecture', (select id from teachers where name = 'Melnykova N. I.'), (select id from groupes whe
re group_name = 'KN-210'), (select id from classrooms where classroom_number = 0), 'no_matter');
Query OK, 1 row affected (0.14 sec)
```

```
mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Tuesday'), 5, (select id from curriculum where subject_name
= 'Computer networks'), 'Laboratory', (select id from teachers where name = 'Rzheuskiy A. V.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 409), 'no_matter');
Query OK, 1 row affected (0.18 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Wednesday'), 1, (select id from curriculum where subject_name
= 'MMRO'), 'Laboratory', (select id from teachers where name = 'Peleshyshyn O. P.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 201), 'no_matter');
Query OK, 1 row affected (0.29 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Wednesday'), 2, (select id from curriculum where subject_name
= 'Data Bases'), 'Laboratory', (select id from teachers where name = 'Melnykova N. I.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 124), 'no_matter');
Query OK, 1 row affected (0.20 sec)

mysql> ((select id from week_days where week_day = 'Wednesday'), 3, (select id from curriculum where subject_name
= 'Data Bases'), 'Laboratory', (select id from teachers where name = 'Melnykova N. I.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 124), 'numerator');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server
version for the right syntax to use near ', 3, (select id from curriculum where subject_name = 'Data Bases'), '
Laboratory'' at line 1
mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Wednesday'), 3, (select id from curriculum where subject_name
= 'Data Bases'), 'Laboratory', (select id from teachers where name = 'Melnykova N. I.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 124), 'numerator');
Query OK, 1 row affected (0.23 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Wednesday'), 3, (select id from curriculum where subject_name
= 'System analysis'), 'Practical', (select id from teachers where name = 'Boyko N. I.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 123), 'denominator');
Query OK, 1 row affected (0.16 sec)

mysql> insert into lab2.schedule
-> (weekDay_id, number, subject_id, type, teacher_id, group_id, classroom_id, parity)
-> values
-> ((select id from week_days where week_day = 'Wednesday'), 4, (select id from curriculum where subject_name
= 'MMRO'), 'Lecture', (select id from teachers where name = 'Boyko N. I.'), (select id from group
es where group_name = 'KN-210'), (select id from classrooms where classroom_number = 0), 'no_matter');
Query OK, 1 row affected (0.42 sec)
```

```
mysql> select* from schedule;
+----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | weekDay_id | number | subject_id | type | teacher_id | group_id | classroom_id | parity |
+----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 1 | 4 | Lecture | 9 | 3 | 1 | no_matter |
| 2 | 1 | 2 | 5 | Lecture | 6 | 3 | 1 | no_matter |
| 3 | 2 | 1 | 3 | Laboratory | 11 | 3 | 3 | denominator |
| 4 | 2 | 1 | 5 | Laboratory | 13 | 3 | 4 | numerator |
| 5 | 2 | 3 | 1 | Lecture | 2 | 3 | 5 | no_matter |
| 6 | 2 | 5 | 4 | Laboratory | 5 | 3 | 2 | no_matter |
| 7 | 3 | 1 | 7 | Laboratory | 8 | 3 | 3 | no_matter |
| 8 | 3 | 2 | 1 | Laboratory | 2 | 3 | 6 | no_matter |
| 9 | 3 | 3 | 1 | Laboratory | 2 | 3 | 6 | numerator |
| 10 | 3 | 3 | 3 | Practical | 4 | 3 | 7 | denominator |
| 11 | 3 | 4 | 7 | Lecture | 4 | 3 | 5 | no_matter |
+----+-----+-----+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

Тепер використаємо функцію **UPDATE** змінимо у таблиці schedule ідентифікатор дисципліни у полі з id = 7. Зараз там стоїть subject\_id = 7. Поставимо id дисципліни *DATA BASES*.

```
mysql> update lab2.schedule set subject_id = (select id from lab2.curriculum where subject_name = 'Data Bases')
where id = 7;
Query OK, 1 row affected (0.18 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select* from schedule;
```

id	weekDay_id	number	subject_id	type	teacher_id	group_id	classroom_id	parity
1	1	1	4	Lecture	9	3	1	no_matter
2	1	2	5	Lecture	6	3	1	no_matter
3	2	1	3	Laboratory	11	3	3	denominator
4	2	1	5	Laboratory	13	3	4	numerator
5	2	3	1	Lecture	2	3	5	no_matter
6	2	5	4	Laboratory	5	3	2	no_matter
7	3	1	1	Laboratory	8	3	3	no_matter
8	3	2	1	Laboratory	2	3	6	no_matter
9	3	3	1	Laboratory	2	3	6	numerator
10	3	3	3	Practical	4	3	7	denominator
11	3	4	7	Lecture	4	3	5	no_matter

```
11 rows in set (0.01 sec)

mysql> select subject_name from curriculum where id = 1;
```

subject_name
Data Bases

```
1 row in set (0.00 sec)
```

Бачимо, що у полі з id = 7, subject\_id тепер дорівнює 1. І одразу перевіряємо чи справді під 1 є бази даних і бачимо, що це так, отже запит пройшов успішно.

Далі спробуємо видалити останній запис до бази даних командою **DELETE**.

```
mysql> delete from schedule where id = 11;
```

Query OK, 1 row affected (0.66 sec)

```
mysql> select* from schedule;
```

id	weekDay_id	number	subject_id	type	teacher_id	group_id	classroom_id	parity
1	1	1	4	Lecture	9	3	1	no_matter
2	1	2	5	Lecture	6	3	1	no_matter
3	2	1	3	Laboratory	11	3	3	denominator
4	2	1	5	Laboratory	13	3	4	numerator
5	2	3	1	Lecture	2	3	5	no_matter
6	2	5	4	Laboratory	5	3	2	no_matter
7	3	1	1	Laboratory	8	3	3	no_matter
8	3	2	1	Laboratory	2	3	6	no_matter
9	3	3	1	Laboratory	2	3	6	numerator
10	3	3	3	Practical	4	3	7	denominator

```
10 rows in set (0.01 sec)
```

Спробуємо більш складний запит **DELETE**. Видалимо поле де subject\_id дорівнює id такої дисципліни як **Computer networks**.

```
mysql> delete from schedule where subject_id = (select id from curriculum where subject_name = 'Computer network
s');
Query OK, 2 rows affected (0.46 sec)

mysql> select* from schedule;
```

id	weekDay_id	number	subject_id	type	teacher_id	group_id	classroom_id	parity
2	1	2	5	Lecture	6	3	1	no_matter
3	2	1	3	Laboratory	11	3	3	denominator
4	2	1	5	Laboratory	13	3	4	numerator
5	2	3	1	Lecture	2	3	5	no_matter
7	3	1	1	Laboratory	8	3	3	no_matter
8	3	2	1	Laboratory	2	3	6	no_matter
9	3	3	1	Laboratory	2	3	6	numerator
10	3	3	3	Practical	4	3	7	denominator

```
8 rows in set (0.00 sec)
```

Як бачимо зникли поля з id = 1 та 6.

**Висновки:** в ході проведеної лабораторної роботи я розробив SQL-запити для внесення нових значень в таблиці в режимі одиничного та групового



доповнення, розробити SQL-запити для внесення змін в рядки таблиць, розробив SQL-запити для вилучення вибраних рядків.