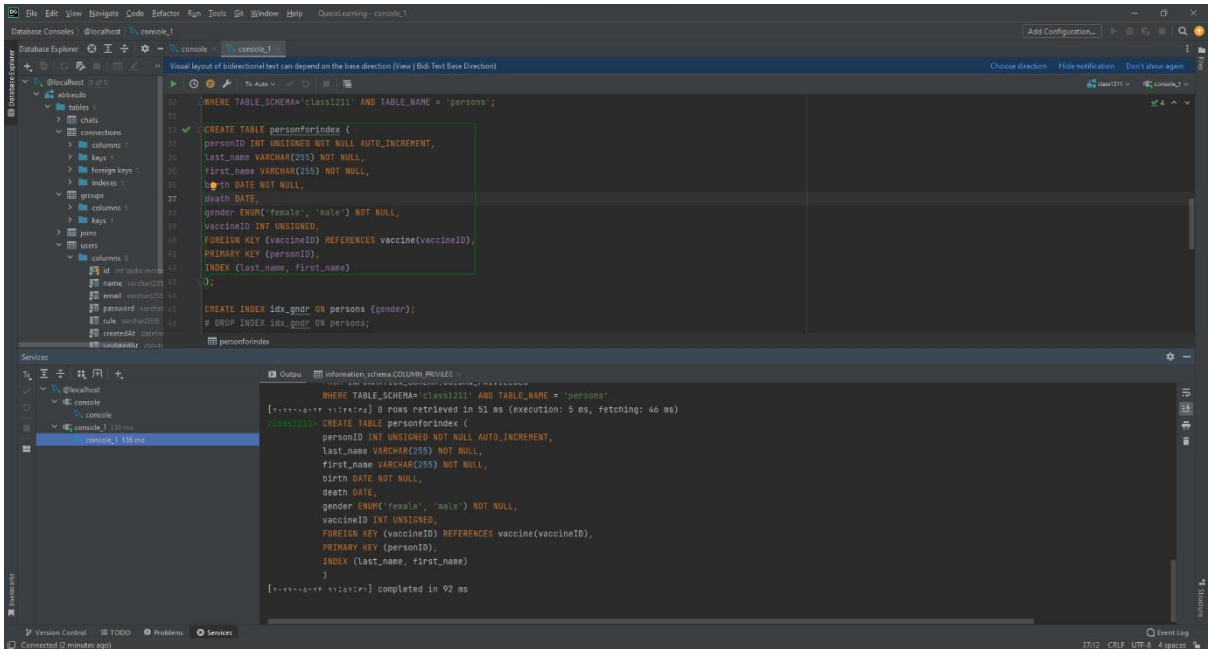
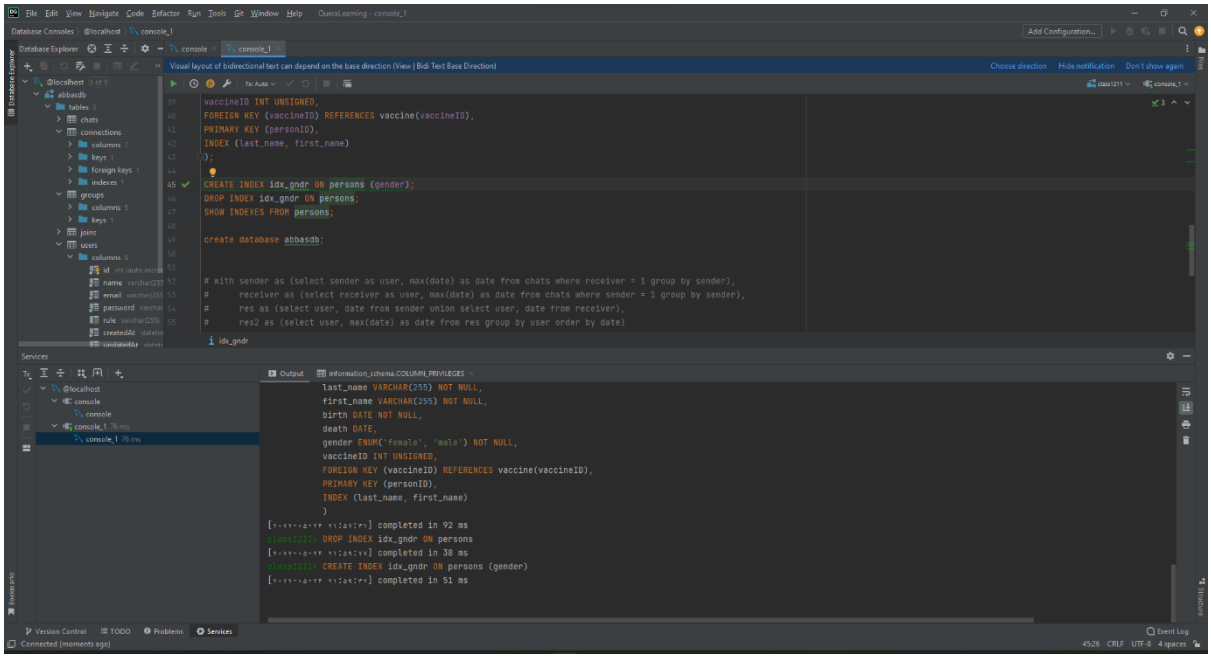
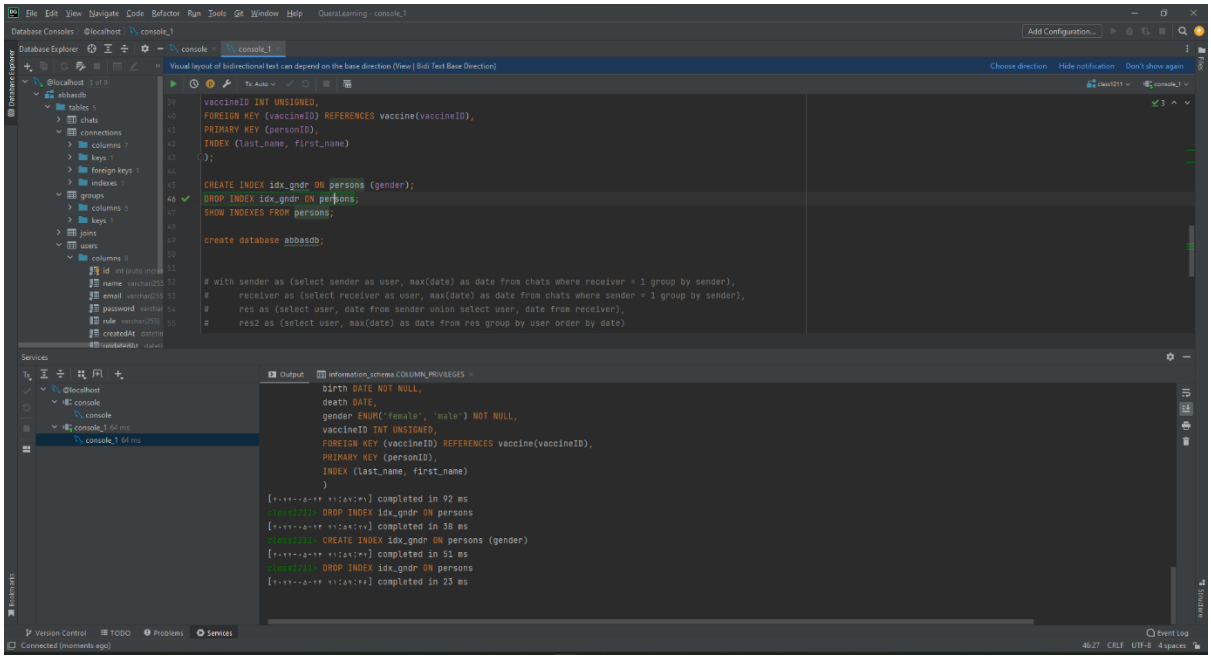
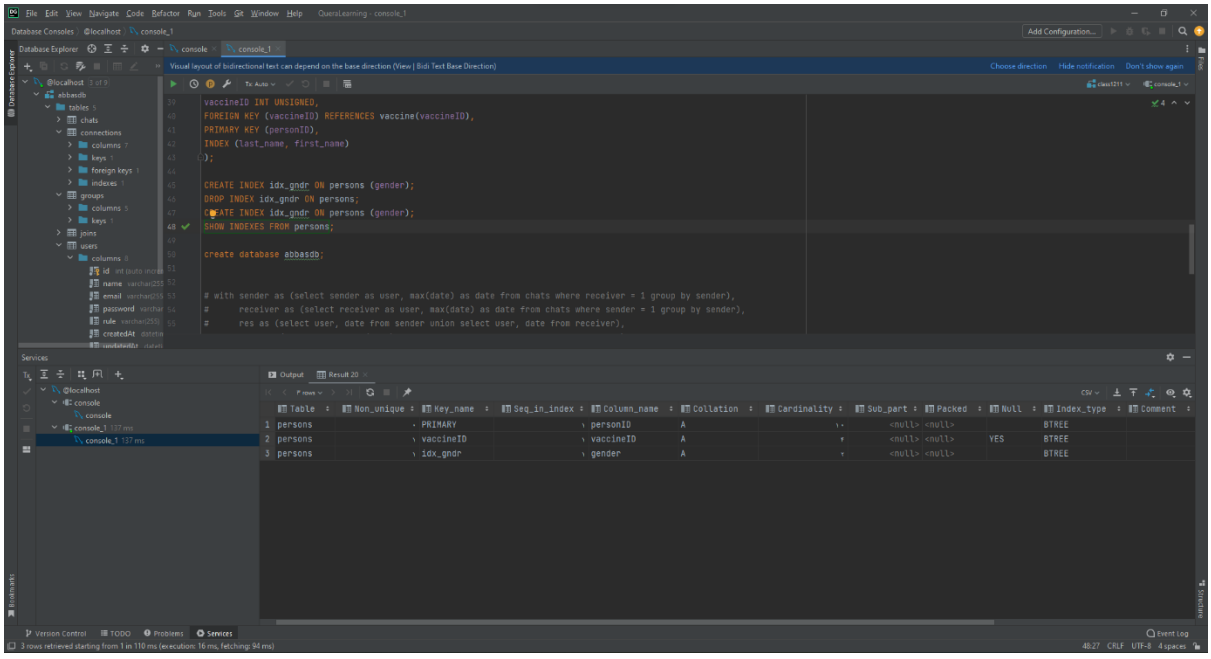
سید عباس میرقاسمی

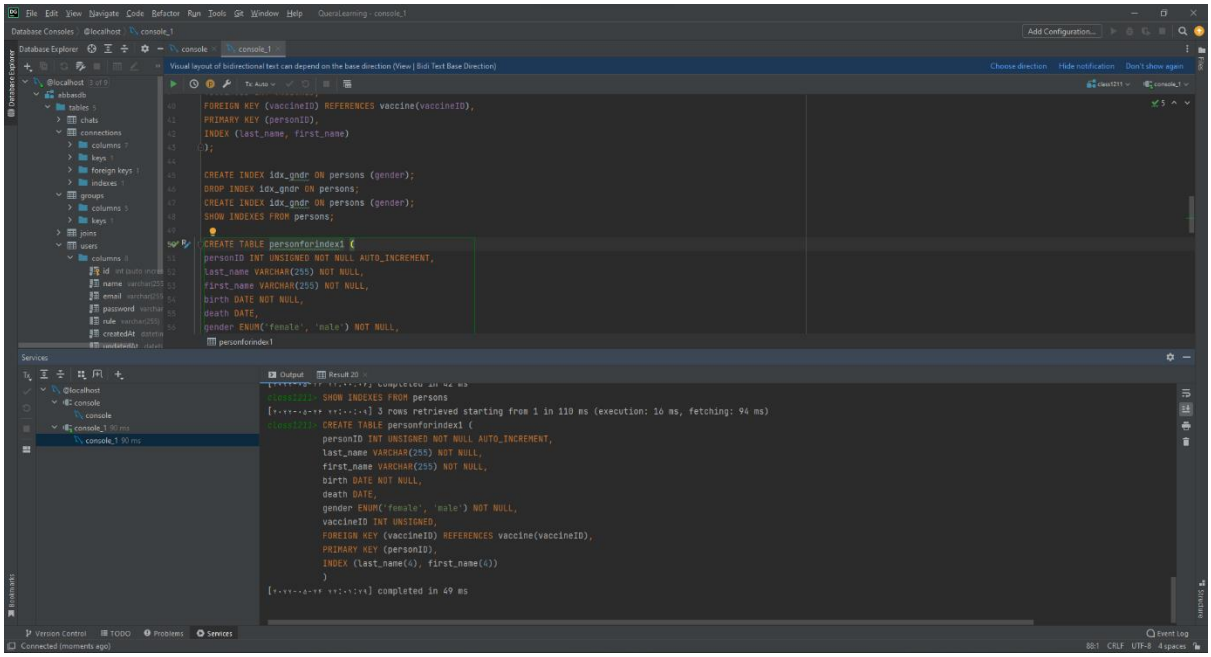
97243068

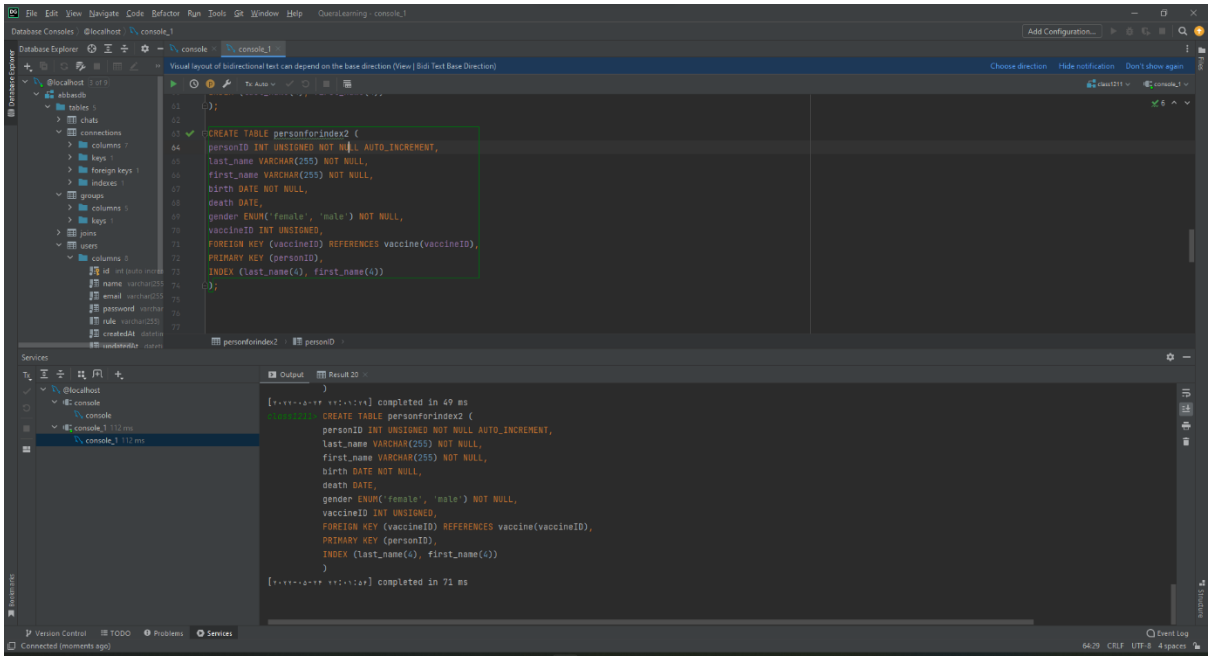


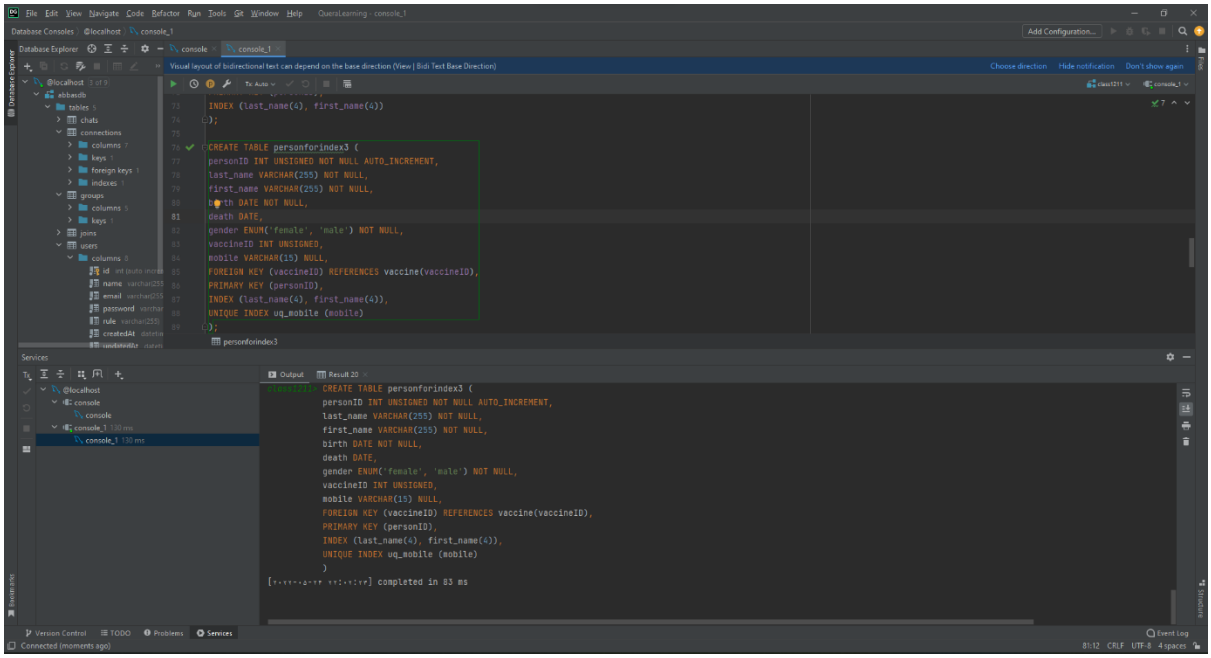



vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name, first_name)
);
CREATE INDEX idx_gndr ON persons (gender);
DROP INDEX idx_gndr ON persons;
SHOW INDEXES FROM persons;
create database abbasdb;
with sender as (select sender as user, max(date) as date from chats where receiver = 1 group by sender),
receiver as (select receiver as user, max(date) as date from chats where sender = 1 group by sender),
res as (select user, date from sender union select user, date from receiver),
res2 as (select user, max(date) as date from res group by user order by date)
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name, first_name)
)
DROP INDEX idx_gndr ON persons
CREATE INDEX idx_gndr ON persons (gender)
DROP INDEX idx_gndr ON persons


vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name, first_name)
);
CREATE INDEX idx_gndr ON persons (gender);
DROP INDEX idx_gndr ON persons;
CREATE INDEX idx_gndr ON persons (gender);
SHOW INDEXES FROM persons;
create database abbasdb;
with sender as (select sender as user, max(date) as date from chats where receiver = 1 group by sender),
receiver as (select receiver as user, max(date) as date from chats where sender = 1 group by sender),
res as (select user, date from sender union select user, date from receiver),
Table
Non_unique
Key_name
Seq_in_index
Column_name
Collation
Cardinality
Sub_part
Packed
Null
Index_type
Comment
1 persons 0 PRIMARY 1 personID A 1 <null> <null> BTREE
2 persons 1 vaccineID 1 vaccineID A 1 <null> <null> YES BTREE
3 persons 1 idx_gndr 1 gender A 1 <null> <null> BTREE


FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name, first_name)
);
CREATE INDEX idx_gndr ON persons (gender);
DROP INDEX idx_gndr ON persons;
CREATE INDEX idx_gndr ON persons (gender);
SHOW INDEXES FROM persons;
CREATE TABLE personforindex1 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
personforindex1
Output
Result 20
SHOW INDEXES FROM persons
3 rows retrieved starting from 1 in 110 ms (execution: 16 ms, fetching: 94 ms)
CREATE TABLE personforindex1 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name(4), first_name(4))
)
completed in 49 ms


);
CREATE TABLE personforindex2 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name(4), first_name(4))
);
personforindex2
personID
completed in 49 ms
CREATE TABLE personforindex2 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name(4), first_name(4))
)
completed in 71 ms


INDEX (last_name(4), first_name(4))
);
CREATE TABLE personforindex3 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
mobile VARCHAR(15) NULL,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name(4), first_name(4)),
UNIQUE INDEX uq_mobile (mobile)
);
personforindex3
CREATE TABLE personforindex3 (
personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
last_name VARCHAR(255) NOT NULL,
first_name VARCHAR(255) NOT NULL,
birth DATE NOT NULL,
death DATE,
gender ENUM('female', 'male') NOT NULL,
vaccineID INT UNSIGNED,
mobile VARCHAR(15) NULL,
FOREIGN KEY (vaccineID) REFERENCES vaccine(vaccineID),
PRIMARY KEY (personID),
INDEX (last_name(4), first_name(4)),
UNIQUE INDEX uq_mobile (mobile)
)
completed in 83 ms