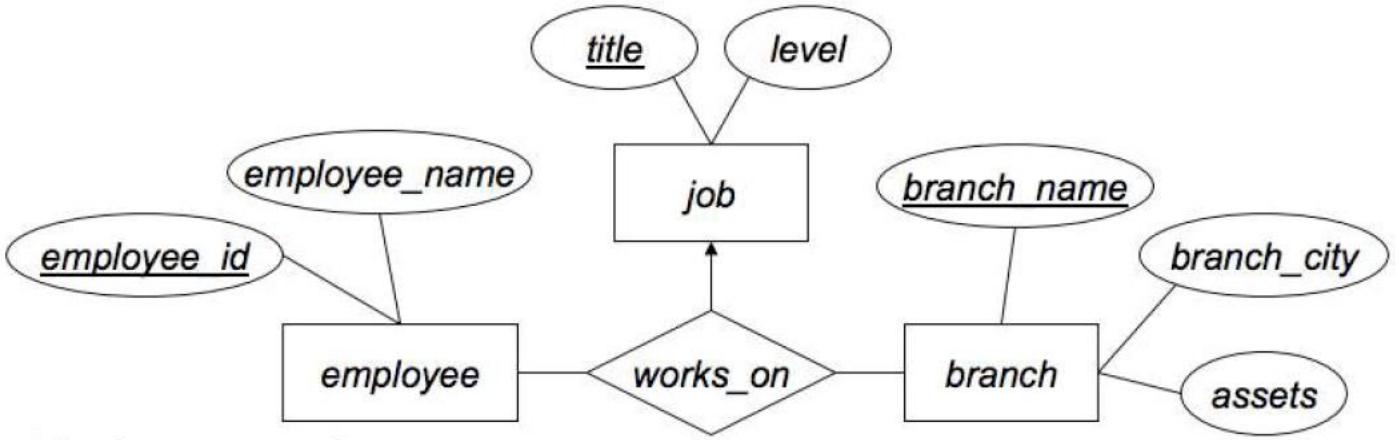
From ER to Schemas to Tables

Practice 1

- Many-to-many: R(key1, key2)
- One-to-many: R(key1, key2)
- One-to-one: R(key1, key2) or R(key1, key2)



- Write all schemas

Practice 1: Result

job(title, level)

employee(employee_id, employee_name)

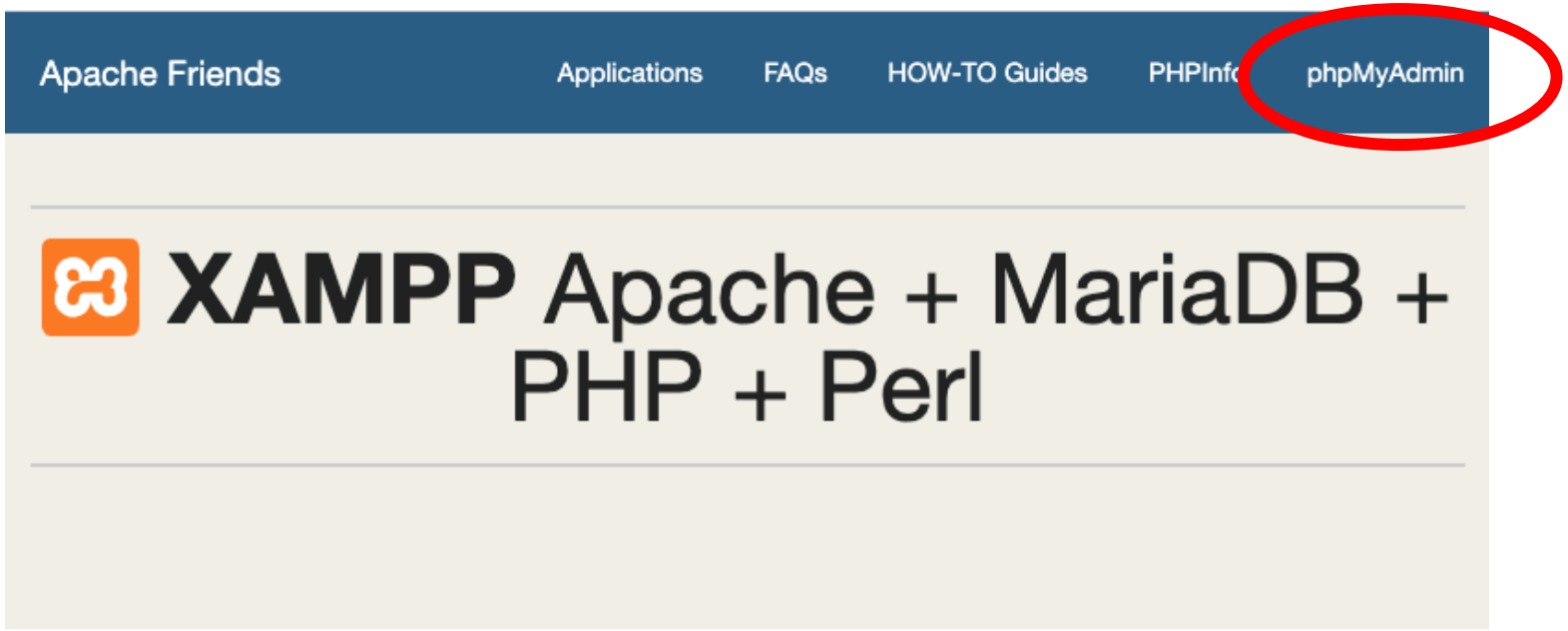
branch(branch_name, branch_city, assets)

works_in(employee_id, branch_name, title)

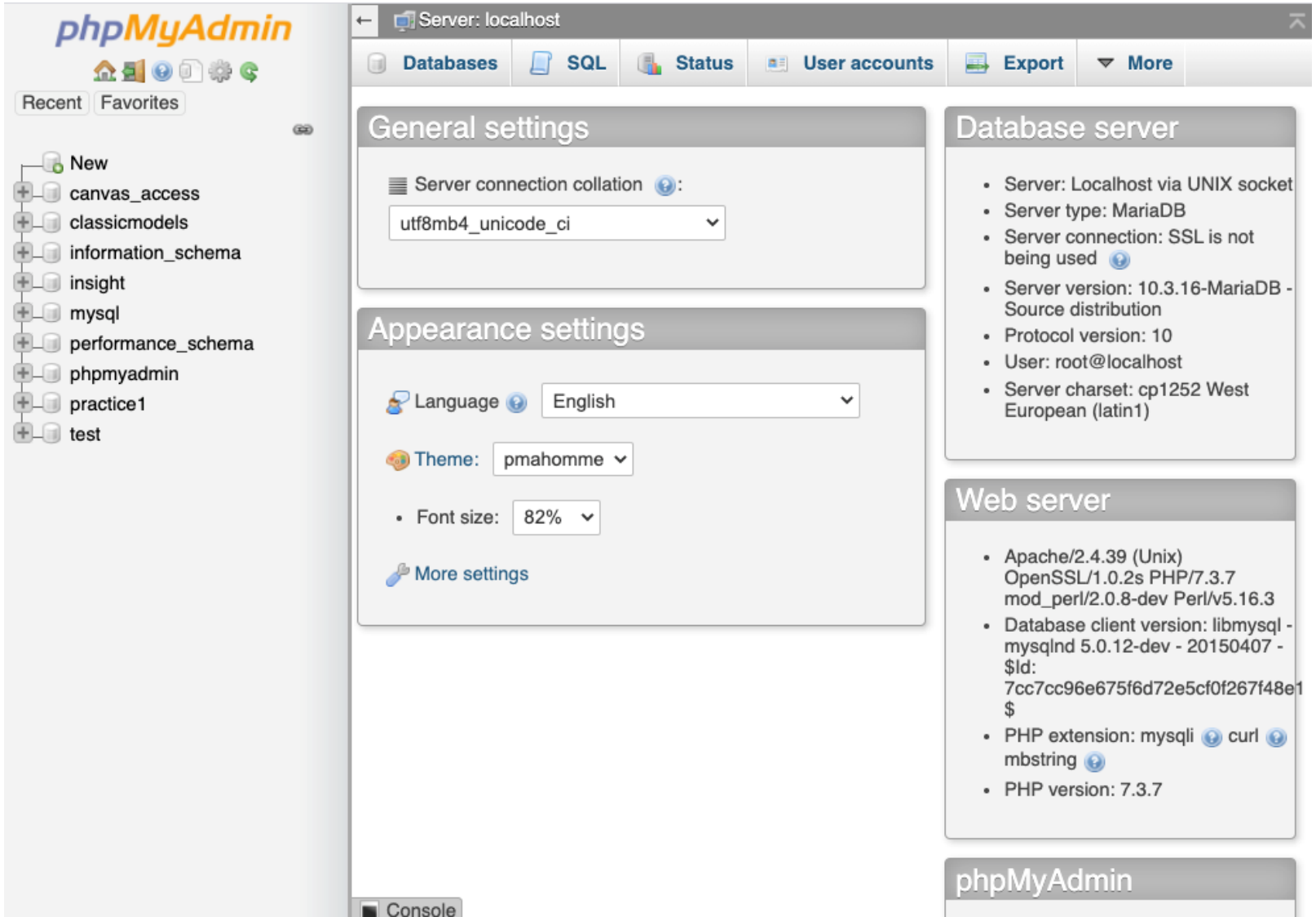
Remember that ‘title’ in works_in is a primary key in job. Hence, we have employee_id and branch_name TOGETHER as a primary key for works_in, but ALL THREE are foreign keys on their own.

phpMyAdmin

phpMyAdmin


Apache Friends
Applications
FAQs
HOW-TO Guides
PHPInfo
phpMyAdmin
XAMPP Apache + MariaDB + PHP + Perl
Welcome to XAMPP for OS X 7.3.7
You have successfully installed XAMPP on this system! Now you can start using Apache, MariaDB,

phpMyAdmin


phpMyAdmin
Recent
Favorites
New
canvas_access
classicmodels
information_schema
insight
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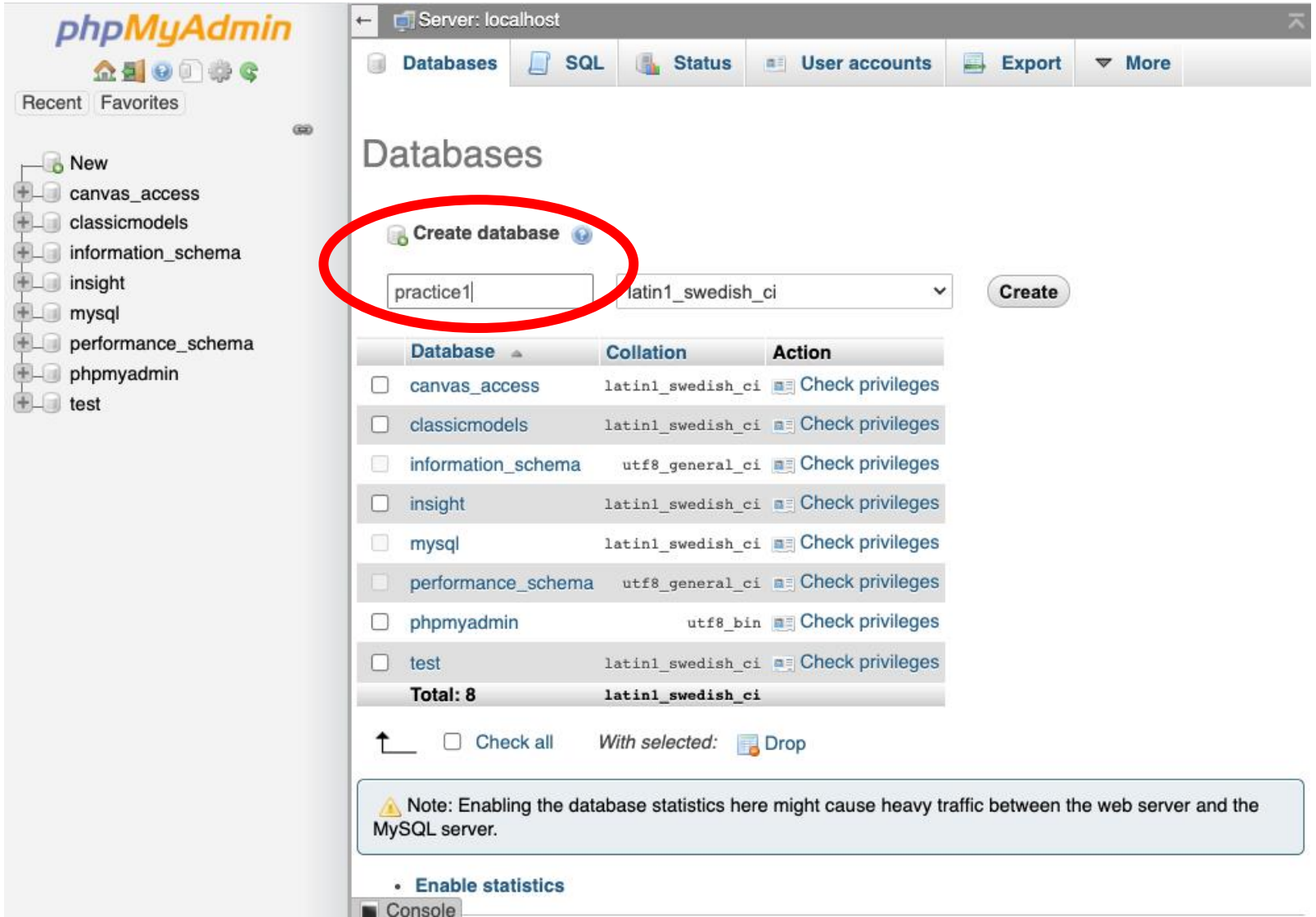
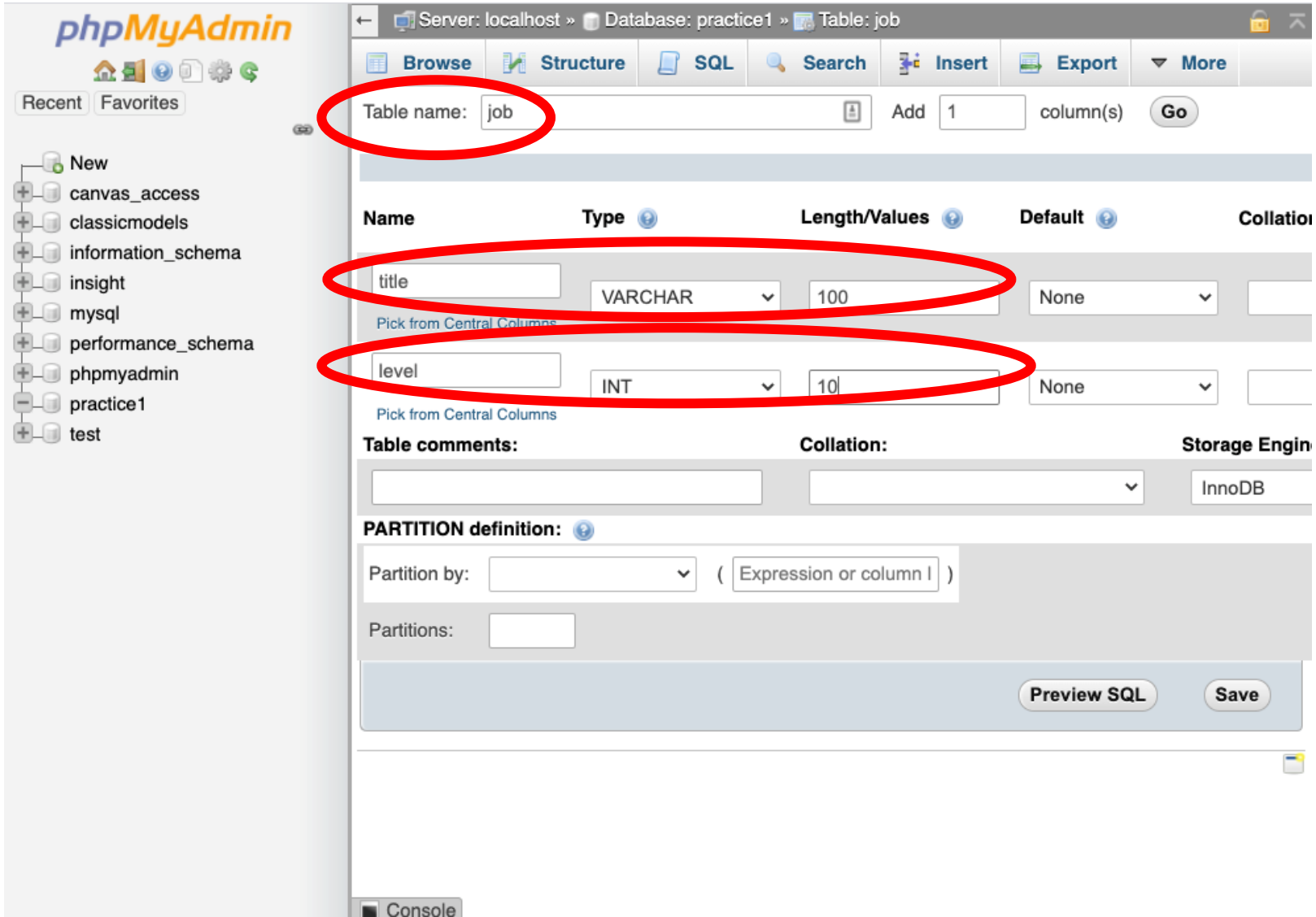
performance_schema
phpmyadmin
practice1
test
Server: localhost
Databases
SQL
Status
User accounts
Export
More
General settings
Server connection collation :
utf8mb4_unicode_ci
Appearance settings
Language
English
Theme:
pmahomme
Font size:
82%
More settings
Database server
Server: Localhost via UNIX socket
Server type: MariaDB
Server connection: SSL is not being used
Server version: 10.3.16-MariaDB - Source distribution
Protocol version: 10
User: root@localhost
Server charset: cp1252 West European (latin1)
Web server
Apache/2.4.39 (Unix) OpenSSL/1.0.2s PHP/7.3.7 mod_perl/2.0.8-dev Perl/v5.16.3
Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - $Id: 7cc7cc96e675f6d72e5cf0f267f48e1 $
PHP extension: mysqli curl mbstring
PHP version: 7.3.7
phpMyAdmin
Console

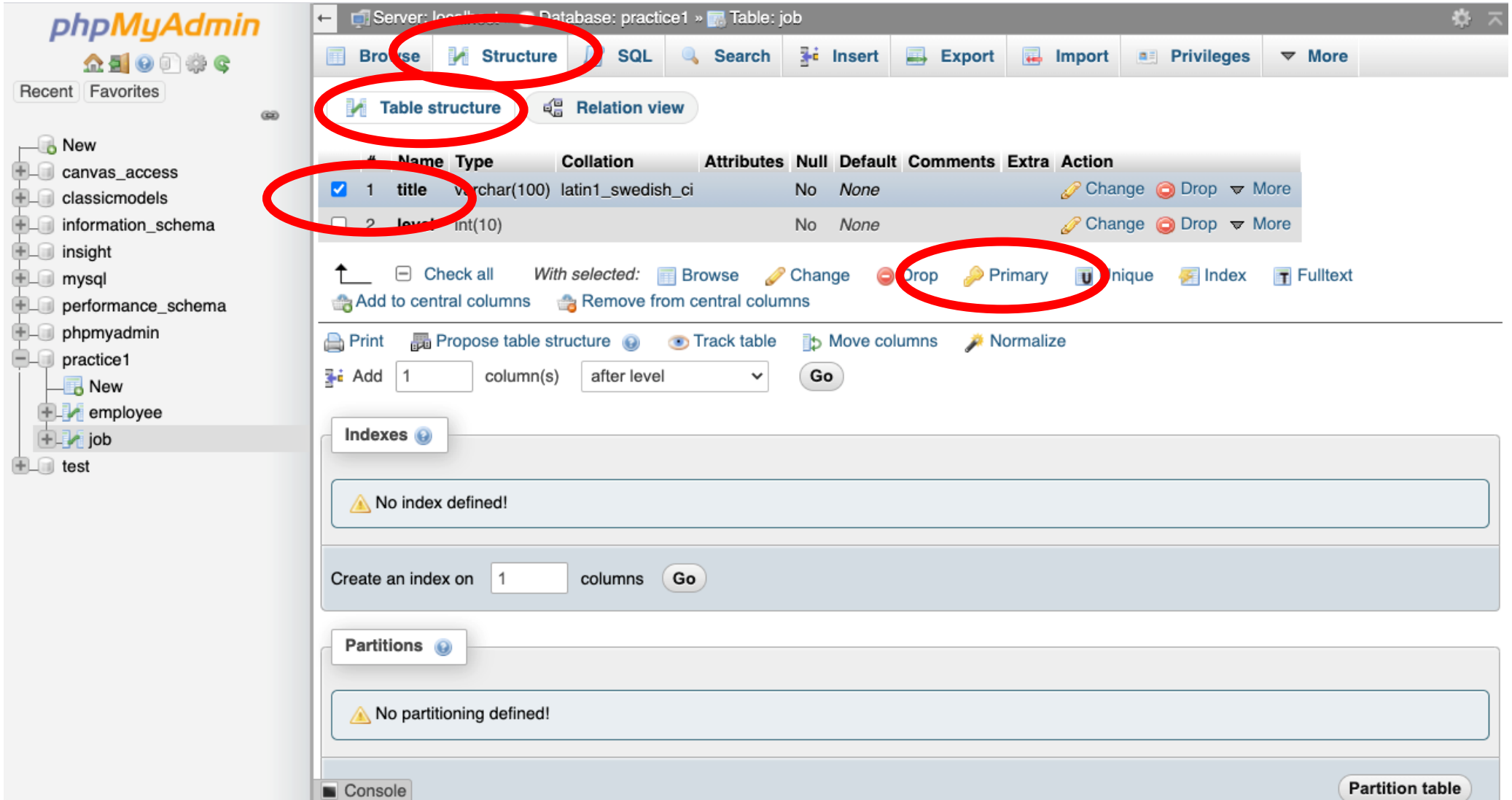
Create new database ‘practice1’



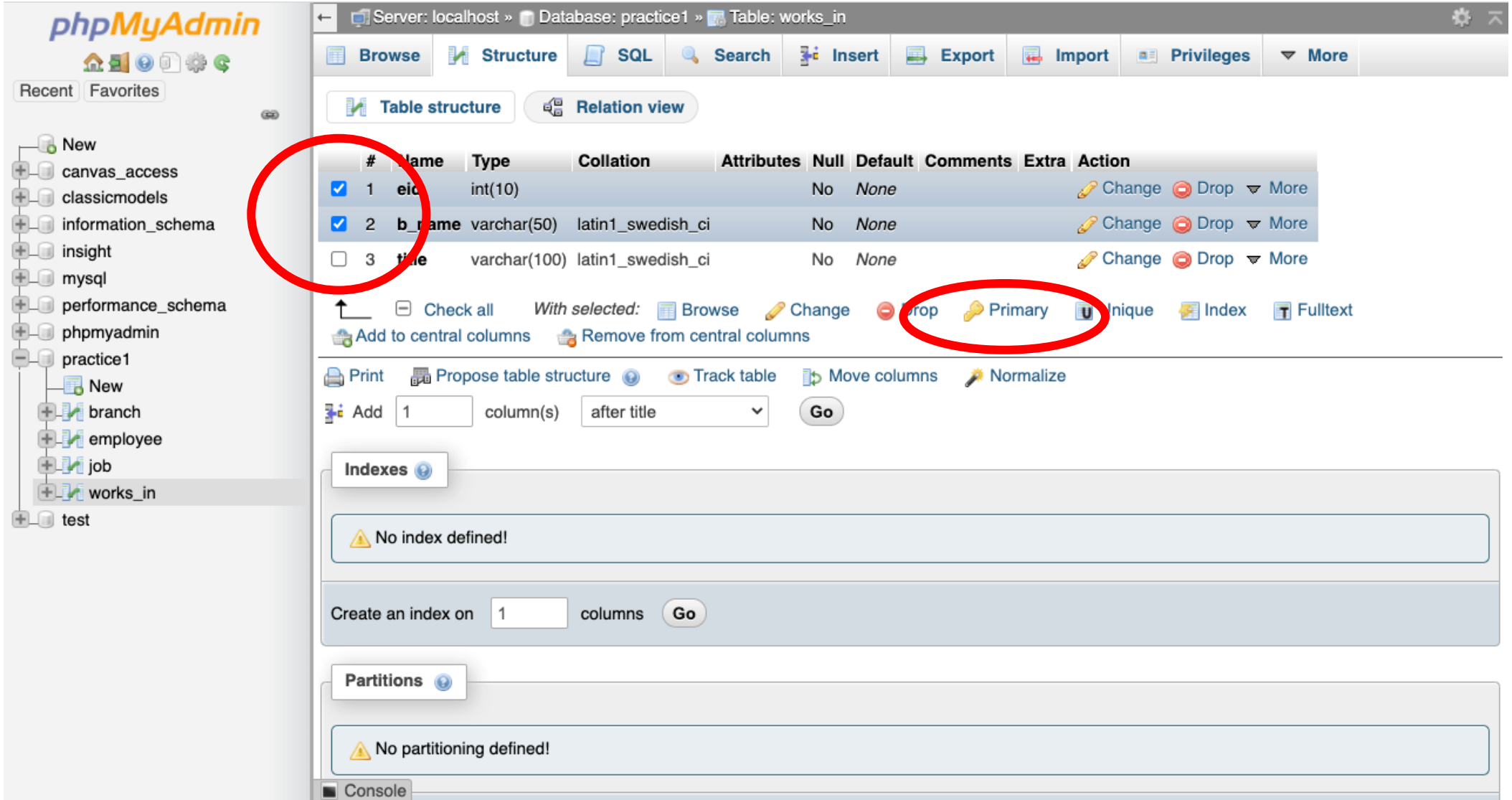
Add new table ‘job’ to the database



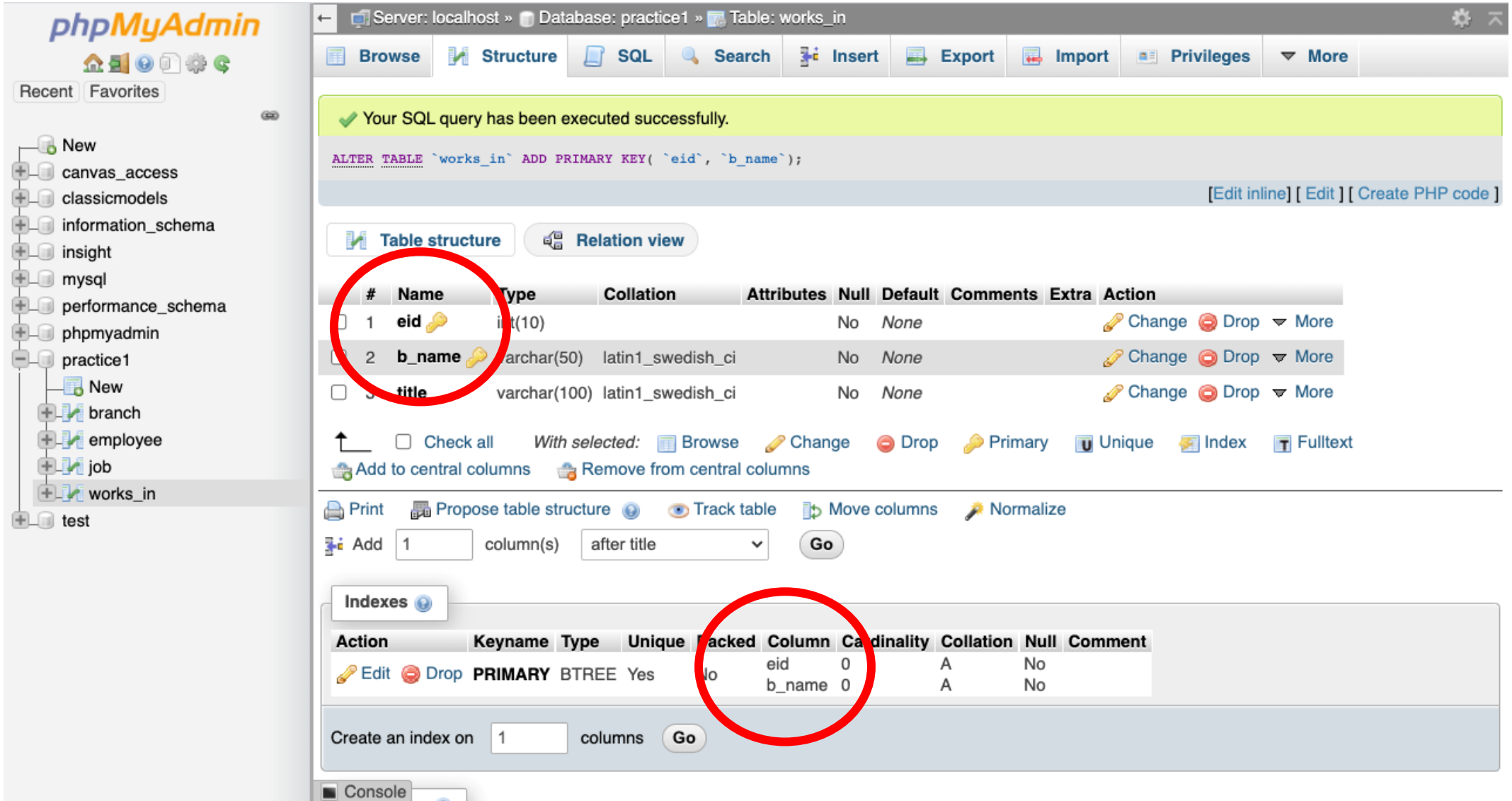
Specify primary key for ‘job’ table



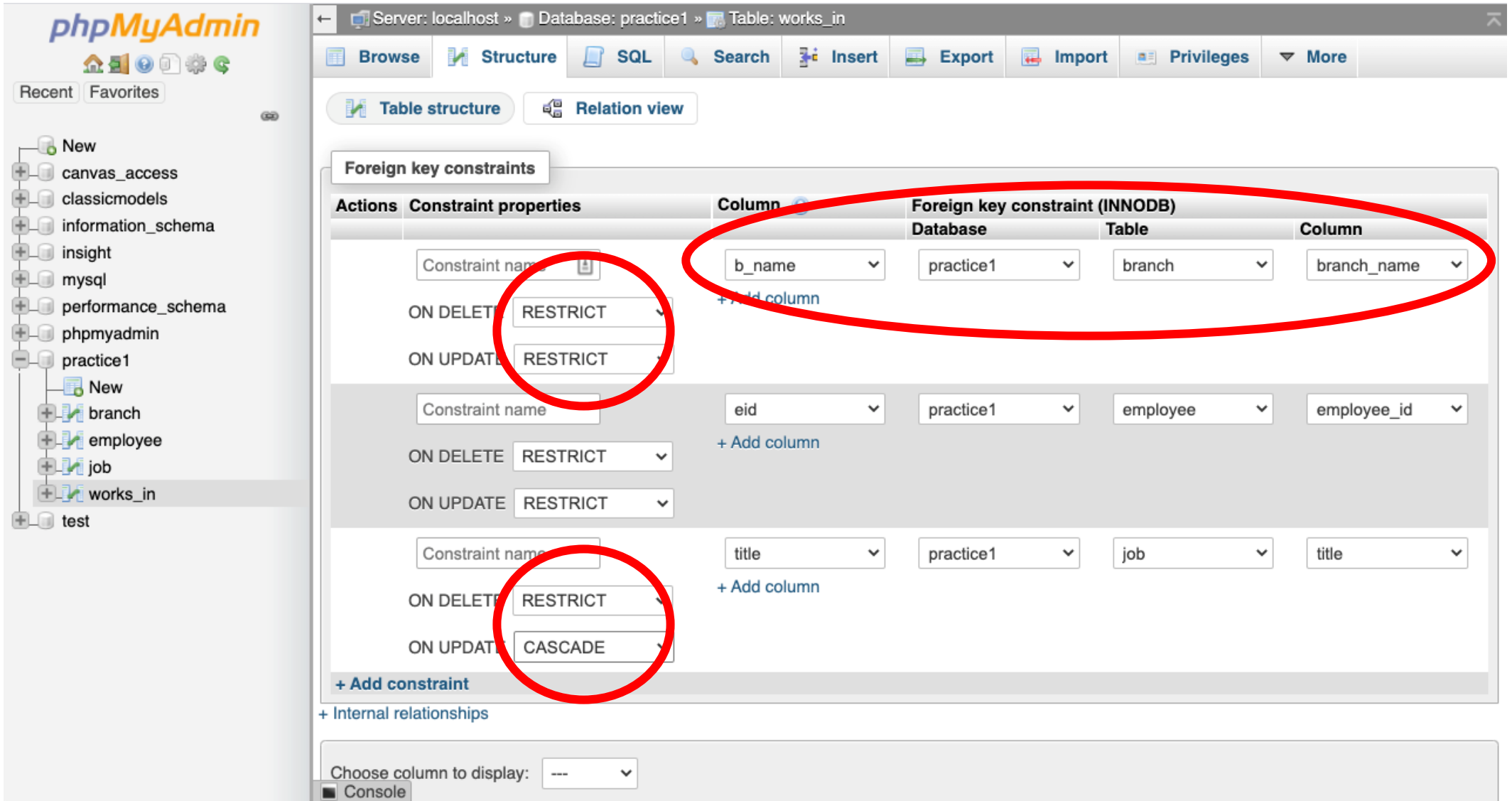
Primary key from 2 fields for ‘table works_in’



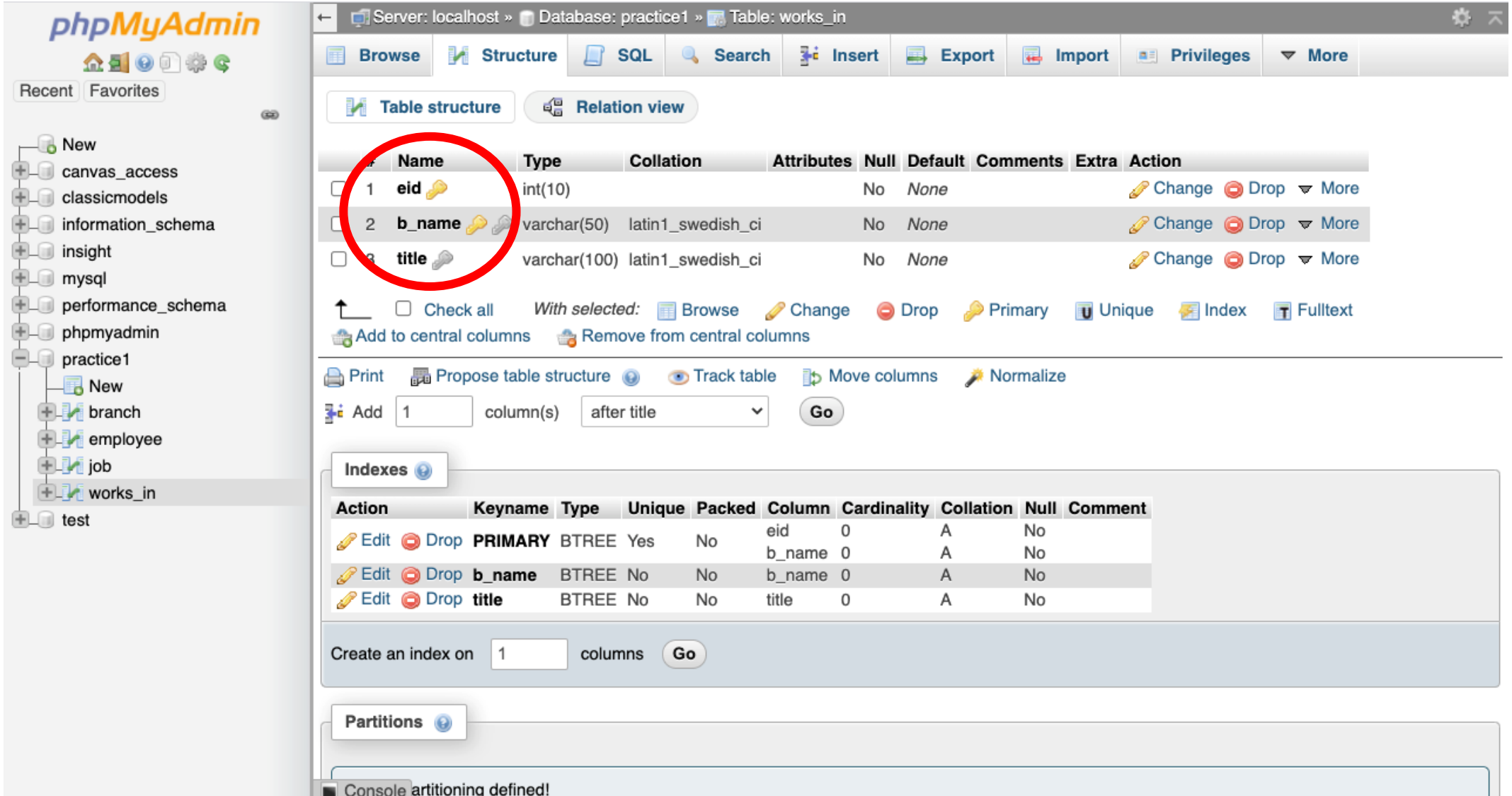
2-field primary key - result



Adding Foreign Key Constraints to ‘works_in’



Foreign key outcome



Resource

- This video can help: https://www.youtube.com/watch?v=7HTAX0dfJqg
  - Pay attention to setting parameters for the foreign key constrain: RESTRICT vs CASCADE