

Εκτέλεση προγράμματος με το docker με το IntelliJ IDEA

1. Κατεβάστε την εφαρμογή Docker

Install Docker Desktop on Windows

Estimated reading time: 9 minutes

Update to the Docker Desktop terms

Professional use of Docker Desktop in large organizations (more than 250 employees or more than \$10 million in annual revenue) requires users to have a paid Docker subscription. While the effective date of these terms is August 31, 2021, there is a grace period until January 31, 2022, for those that require a paid subscription. For more information, see the blog [Docker is Updating and Extending Our Product Subscriptions](#) and the [Docker Desktop License Agreement](#).

Welcome to Docker Desktop for Windows. This page contains information about Docker Desktop for Windows system requirements, download URL, instructions to install and update Docker Desktop for Windows.

Download Docker Desktop for Windows

Docker Desktop for Windows

<https://docs.docker.com/desktop/windows/install/>

2. Δημιουργήστε λογαριασμό στο Docker.
3. Ανοίξτε το command Prompt και τρέξτε τις ακόλουθε εντολές.

```
docker run --name mysqldb -p 3306:3306 -e MYSQL_ROOT_PASSWORD=students123 -d mysql
```

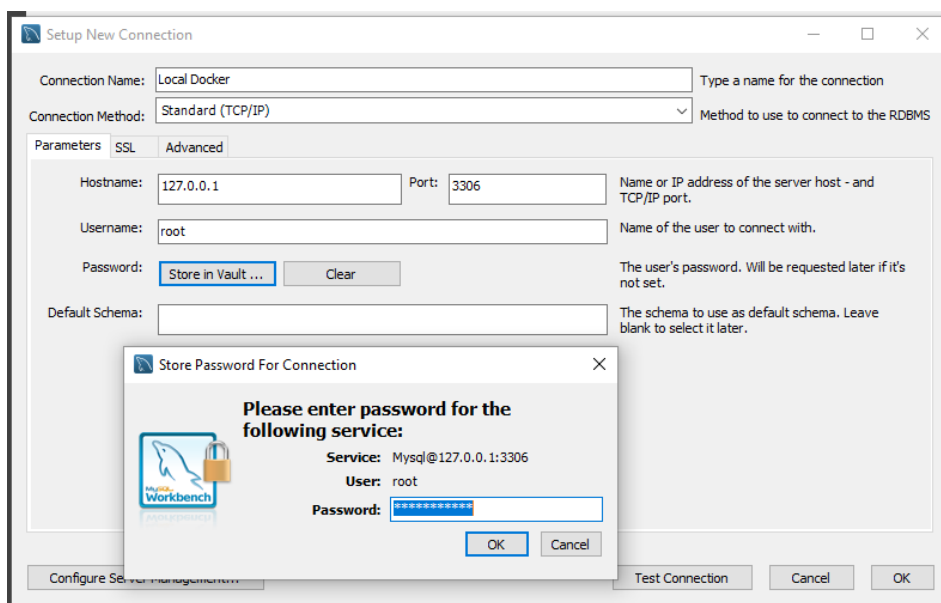
Για να ελέγξεις ότι η εντολή του έτρεξε σωστά τρέξε την εντολή

```
docker ps
```

4. Κατεβάστε την εφαρμογή MySQL

<https://dev.mysql.com/downloads/mysql/>

5. Δημιούργησε ένα Connection πατώντας το εικονίδιο +
6. Συμπλήρωσε τα στοιχεία που σου ζητούνται. Ο κωδικός είναι students123 και το username root.



7. Δημιούργησε ένα login_db sheme. Με τις ακόλουθες εντολές

```

-- MySQL Workbench Forward EngineeringSET
@OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;SET
@OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;SET
@OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_D
ATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';-- -----
----- Schema mydb-- -----
----- Schema login_db-- -----
----- Schema login_db-- -----
CREATE SCHEMA IF NOT EXISTS `login_db` DEFAULT CHARACTER SET utf8mb4
COLLATE utf8mb4_0900_ai_ci ;USE `login_db` ;-- -----
----- Table `login_db`.`users`-- -----
-----CREATE TABLE IF NOT EXISTS
`login_db`.`users` ( `user_id` BIGINT NOT NULL AUTO_INCREMENT, `enabled`
INT(1) NOT NULL, `password` VARCHAR(255) NOT NULL, `username`
VARCHAR(255) NOT NULL, PRIMARY KEY (`user_id`), UNIQUE INDEX
`UK_r43af9ap4edm43mmtq01oddj6` (`username` ASC) VISIBLE)ENGINE =
InnoDBAUTO_INCREMENT = 6DEFAULT CHARACTER SET = utf8mb4COLLATE =
utf8mb4_0900_ai_ci;-- -----
--- Table `login_db`.`requests`-- -----
-----CREATE TABLE IF NOT EXISTS `login_db`.`requests` ( `id`
BIGINT NOT NULL AUTO_INCREMENT, `purpose` VARCHAR(45) NOT NULL, `status`
VARCHAR(45) NOT NULL, `receiver_id` BIGINT NOT NULL, `sender_id` BIGINT
NOT NULL, PRIMARY KEY (`id`), INDEX `FK8kh2eaehckhr55seyhe5k7vdy`
(`receiver_id` ASC) VISIBLE, INDEX `FKg1js12lxokyqtj936eqv1vmvx`
(`sender_id` ASC) VISIBLE, CONSTRAINT `FK8kh2eaehckhr55seyhe5k7vdy`
FOREIGN KEY (`receiver_id`) REFERENCES `login_db`.`users` (`user_id`),
CONSTRAINT `FKg1js12lxokyqtj936eqv1vmvx` FOREIGN KEY (`sender_id`)
REFERENCES `login_db`.`users` (`user_id`))ENGINE = InnoDBAUTO_INCREMENT =
19DEFAULT CHARACTER SET = utf8mb4COLLATE = utf8mb4_0900_ai_ci;-- -----
----- Table `login_db`.`lessons`-- -----
-----CREATE TABLE IF NOT
EXISTS `login_db`.`lessons` ( `lesson_id` BIGINT NOT NULL AUTO_INCREMENT,
`grade` VARCHAR(45) NOT NULL, `name` VARCHAR(45) NOT NULL, `semester`
INT NOT NULL, `requests_id` BIGINT NOT NULL, PRIMARY KEY (`lesson_id`),
INDEX `FKksjm8u46p73j5mskyy61c5t93` (`requests_id` ASC) VISIBLE,
CONSTRAINT `FKksjm8u46p73j5mskyy61c5t93` FOREIGN KEY (`requests_id`)
REFERENCES `login_db`.`requests` (`id`))ENGINE = InnoDBAUTO_INCREMENT =
7DEFAULT CHARACTER SET = utf8mb4COLLATE = utf8mb4_0900_ai_ci;-- -----
----- Table
`login_db`.`recommendation_letter`-- -----
-----CREATE TABLE IF NOT EXISTS
`login_db`.`recommendation_letter` ( `letter_id` BIGINT NOT NULL
AUTO_INCREMENT, `text` TEXT NOT NULL, `requests_id` BIGINT NOT NULL,
PRIMARY KEY (`letter_id`), INDEX `fk_recommendationLetter_requests1_idx`
(`requests_id` ASC) VISIBLE, CONSTRAINT
`fk_recommendationLetter_requests1` FOREIGN KEY (`requests_id`)
REFERENCES `login_db`.`requests` (`id`) ON DELETE NO ACTION ON

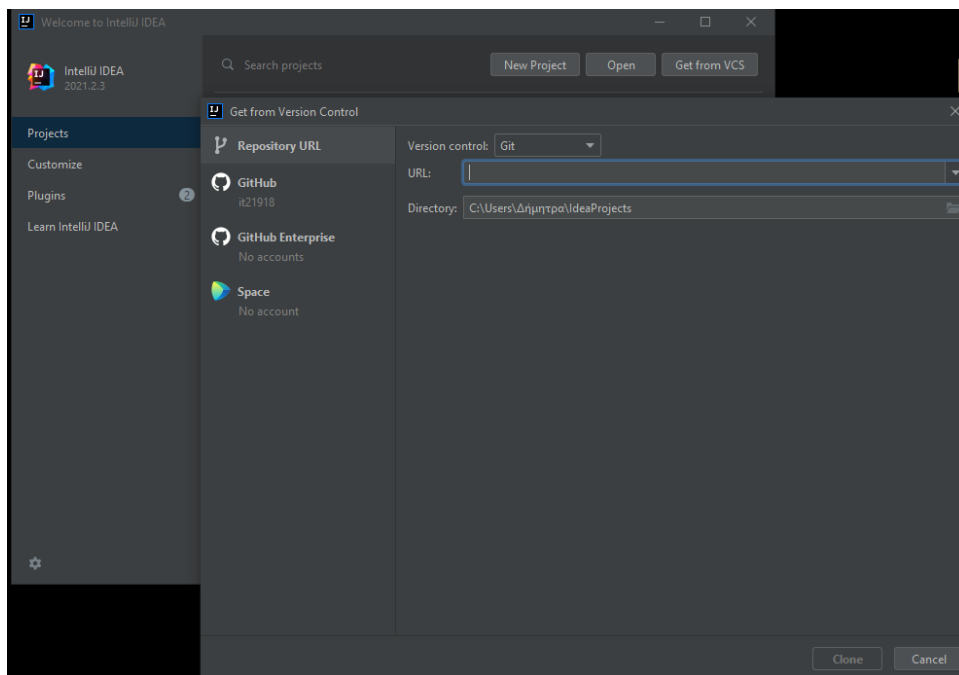
```

```

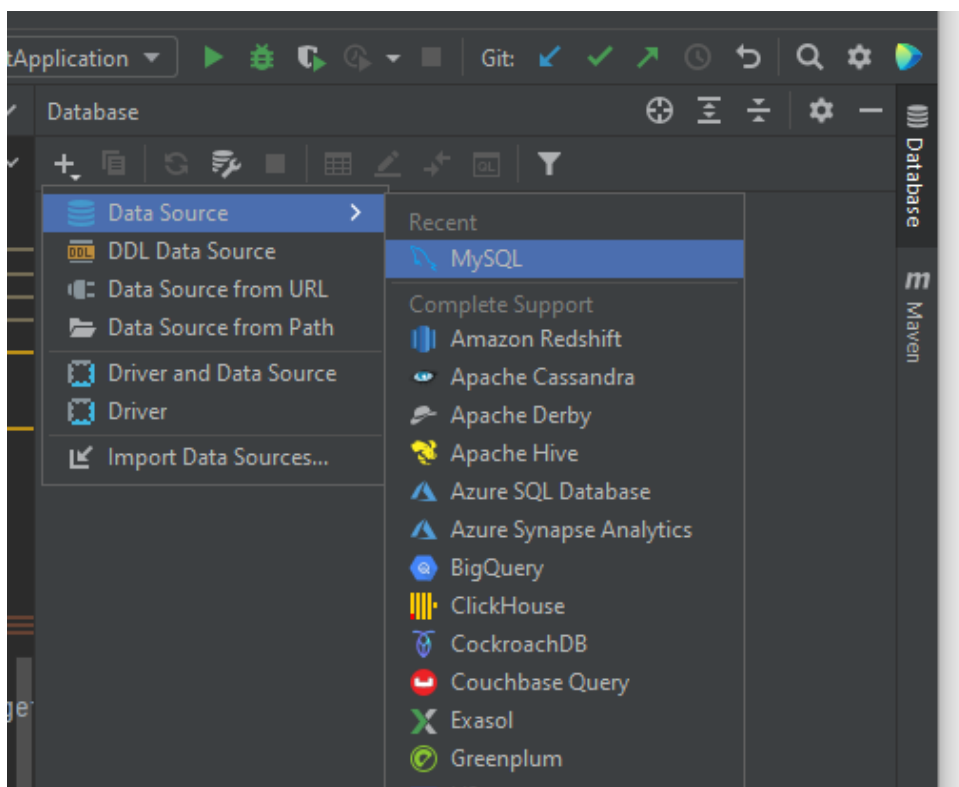
UPDATE NO ACTION)ENGINE = InnoDBDEFAULT CHARACTER SET = utf8mb4COLLATE =
utf8mb4_0900_ai_ci;-- -----
--- Table `login_db`.`roles`-- -----
-----CREATE TABLE IF NOT EXISTS `login_db`.`roles` ( `role_id` INT
NOT NULL AUTO_INCREMENT, `name` VARCHAR(255) NOT NULL, PRIMARY KEY
(`role_id`))ENGINE = InnoDBAUTO_INCREMENT = 4DEFAULT CHARACTER SET =
utf8mb4COLLATE = utf8mb4_0900_ai_ci;-- -----
----- Table `login_db`.`users_roles`-- -----
-----CREATE TABLE IF NOT EXISTS
`login_db`.`users_roles` ( `user_id` BIGINT NOT NULL, `role_id` INT NOT
NULL, PRIMARY KEY (`user_id`, `role_id`), INDEX
`FKj6m8fwv7oqv74fcehir1a9ff` (`role_id` ASC) VISIBLE, CONSTRAINT
`FK2o0jvgh89lemvvo17cbqvdxaa` FOREIGN KEY (`user_id`) REFERENCES
`login_db`.`users` (`user_id`), CONSTRAINT `FKj6m8fwv7oqv74fcehir1a9ff`
FOREIGN KEY (`role_id`) REFERENCES `login_db`.`roles`
(`role_id`))ENGINE = InnoDBDEFAULT CHARACTER SET = utf8mb4COLLATE =
utf8mb4_0900_ai_ci;SET SQL_MODE=@OLD_SQL_MODE;SET
FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;SET
UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;use login_db;insert into users
(user_id,username,password,enabled) values
('1','admin@gmail.com','$2a$12$j5vf6S4wD3MexUJDdFaaKOJDNtaMn57BICEQ65y7uxX
8fBP/gIPe.',1);insert into users (user_id,username,password,enabled)
values
('2','student@gmail.com','$2a$12$wmpePALL618K9K1PnsQw9u12zBkzb2namL60yRAmC
B3hPlnChTptu',1);insert into users (user_id,username,password,enabled)
values
('3','teacher@gmail.com','$2a$12$j5vf6S4wD3MexUJDdFaaKOJDNtaMn57BICEQ65y7u
xX8fBP/gIPe.',1);insert into roles(role_id,name) values
('1','ADMIN');insert into roles (role_id,name) values
('2','STUDENT');insert into roles (role_id,name) values
('3','TEACHER');insert into users_roles values('1','1');insert into
users_roles values('2','2');insert into users_roles values('3','3');

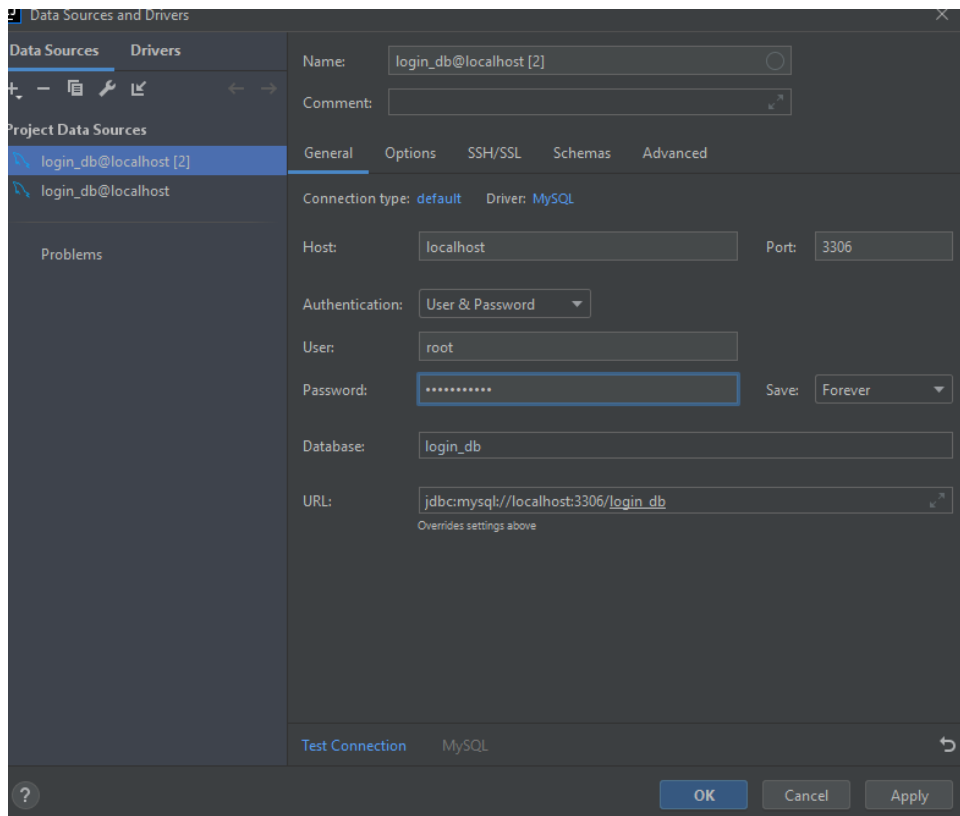
```

8. Κατέβασε τον κώδικα από τον [gitHub](#).



9. Σύνδεσε το πρόγραμμα με την login_db βάση.

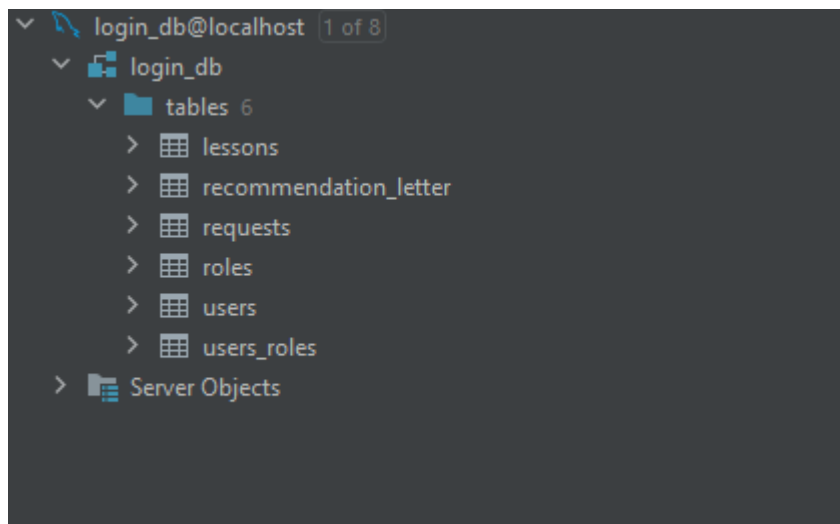




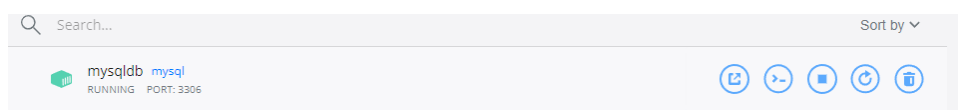
Ο κωδικός είναι: students123

User : root

Database :login_db



10. Φροντίστε ότι το docker mysqldb τρέχει κανονικά και τρέξετε τον κωδικά.



Στην βάση υπάρχουν 3 default users με 3 διαφορετικούς ρόλους. Δοκιμάστε να τρέξετε το πρόγραμμα με τα στοιχεία τους. Στο login ο κωδικός τους είναι 123 και το username admin@gmail.com, student@gmail.com, teacher@gmail.com