Εκτέλεση προγράμματος με το docker με το IntelliJIDEA

1. Κατεβάστε την εφαρμογή Docker

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

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

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

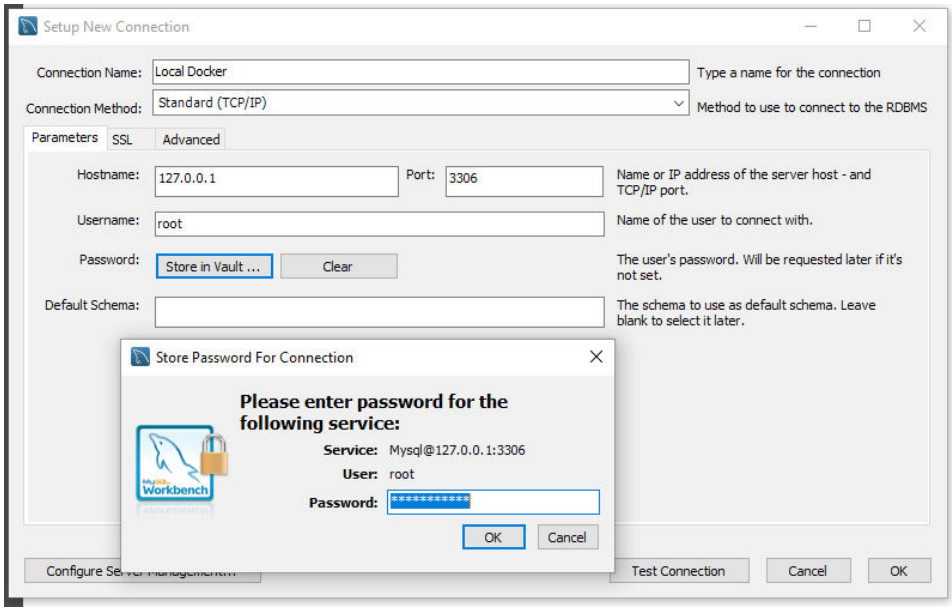
Για να ελέγξεις ότι η εντολή του έτρεξε σωστά τρέξε την εντολή

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.



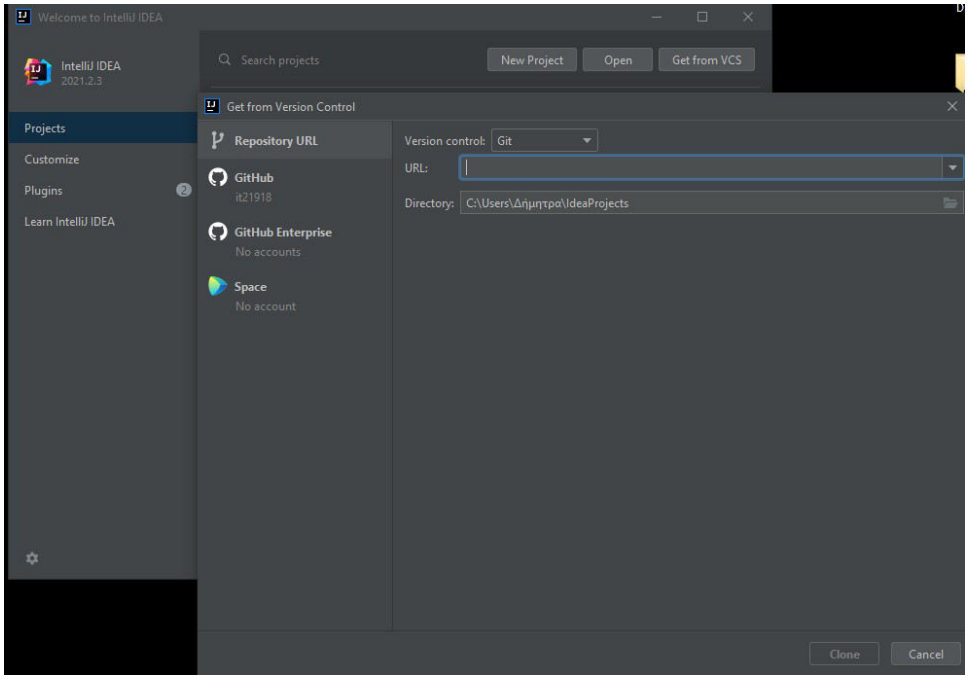
7. Δημιούργησε ένα login_db sheme. Με τις ακόλουθες εντολές

```
-- 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 `FKg1js12lxokyqtj936eqv1mvmx` (`sender_id` ASC)
VISIBLE,  CONSTRAINT `FK8kh2eaehckhr55seyhe5k7vdy`    FOREIGN KEY
(`receiver_id`)    REFERENCES `login_db`.`users` (`user_id`),  CONSTRAINT
`FKg1js12lxokyqtj936eqv1mvmx`    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
```

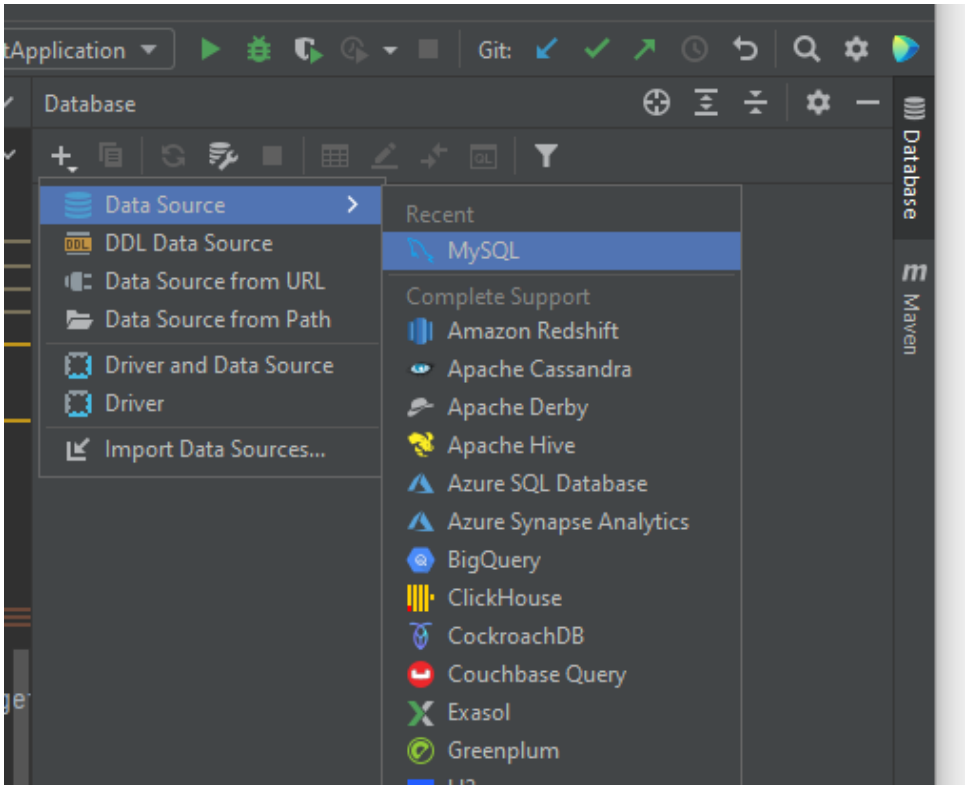
```
`login_db`.`recommendation_letter`--
-----------------------------------------------------

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 `FKj6m8fwv7oqv74fcehir1a9ffy` (`role_id` ASC) VISIBLE,  CONSTRAINT
`FK2o0jvgh89lemvvo17cbqvdxaa`    FOREIGN KEY (`user_id`)    REFERENCES
`login_db`.`users` (`user_id`),  CONSTRAINT `FKj6m8fwv7oqv74fcehir1a9ffy`
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$12$jsvf6S4wD3MexUJDdFaaKOJDNtaMn57BICEQ65y7uxX
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$12$jsvf6S4wD3MexUJDdFaaKOJDNtaMn57BICEQ65y7u
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');
```

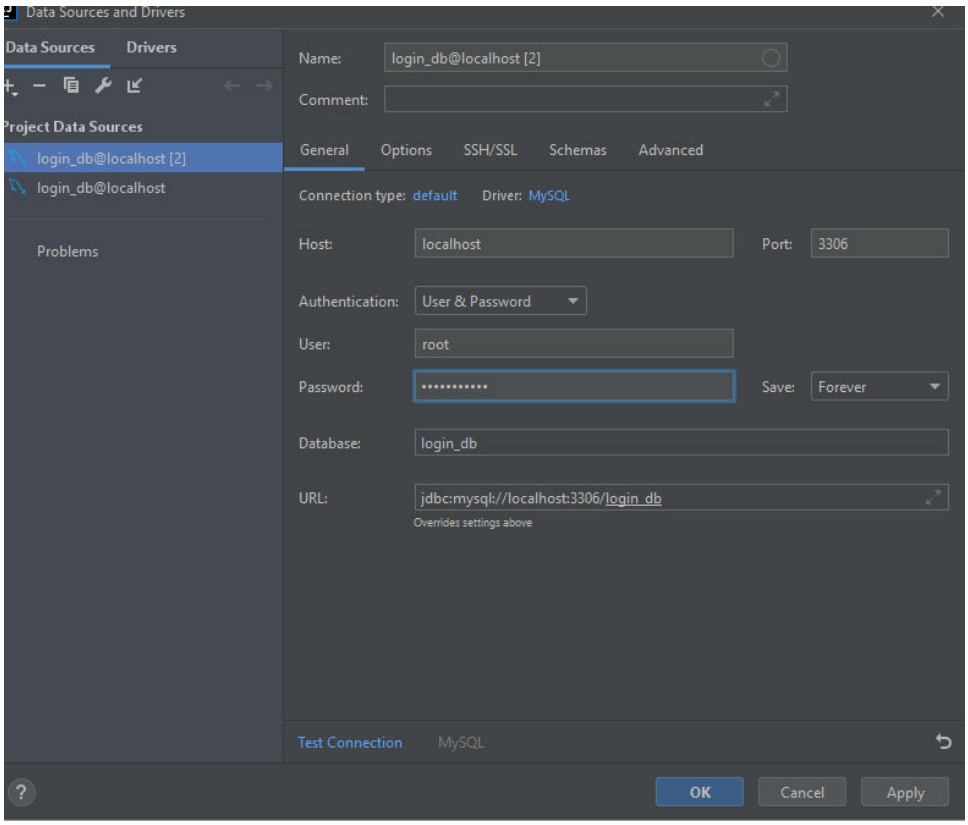
```
insert into users_roles values('1','1');
insert into users_roles values('2','2');
insert into users_roles values('3','3');
```

8. Κατέβασε τον κώδικα από τον gitHub.



9. Σύνδεσε το πρόγραμμα με την login_db βάση.

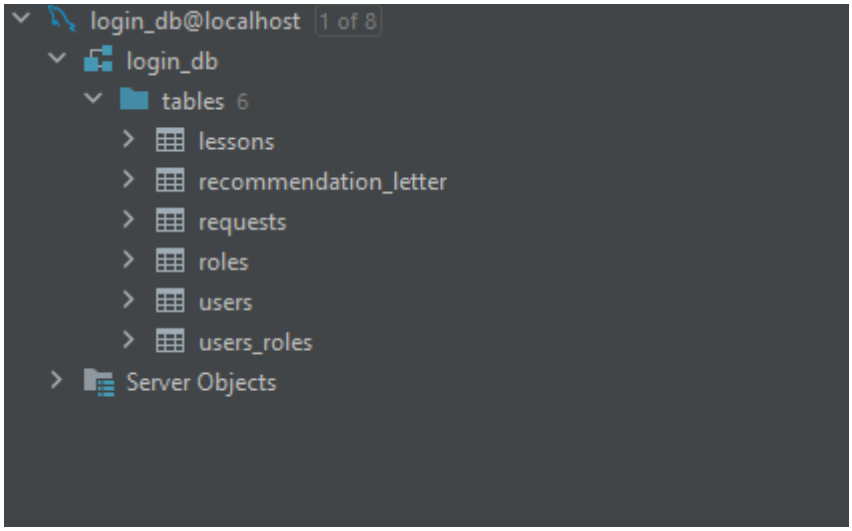




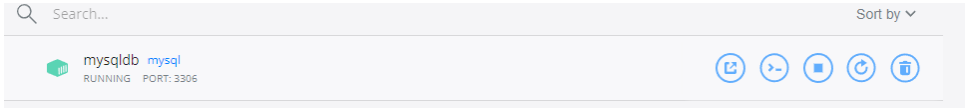
Ο κωδικός είναι: students123

User : root

Database :login_db



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



Στην βάση υπάρχουν 3 defualt 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