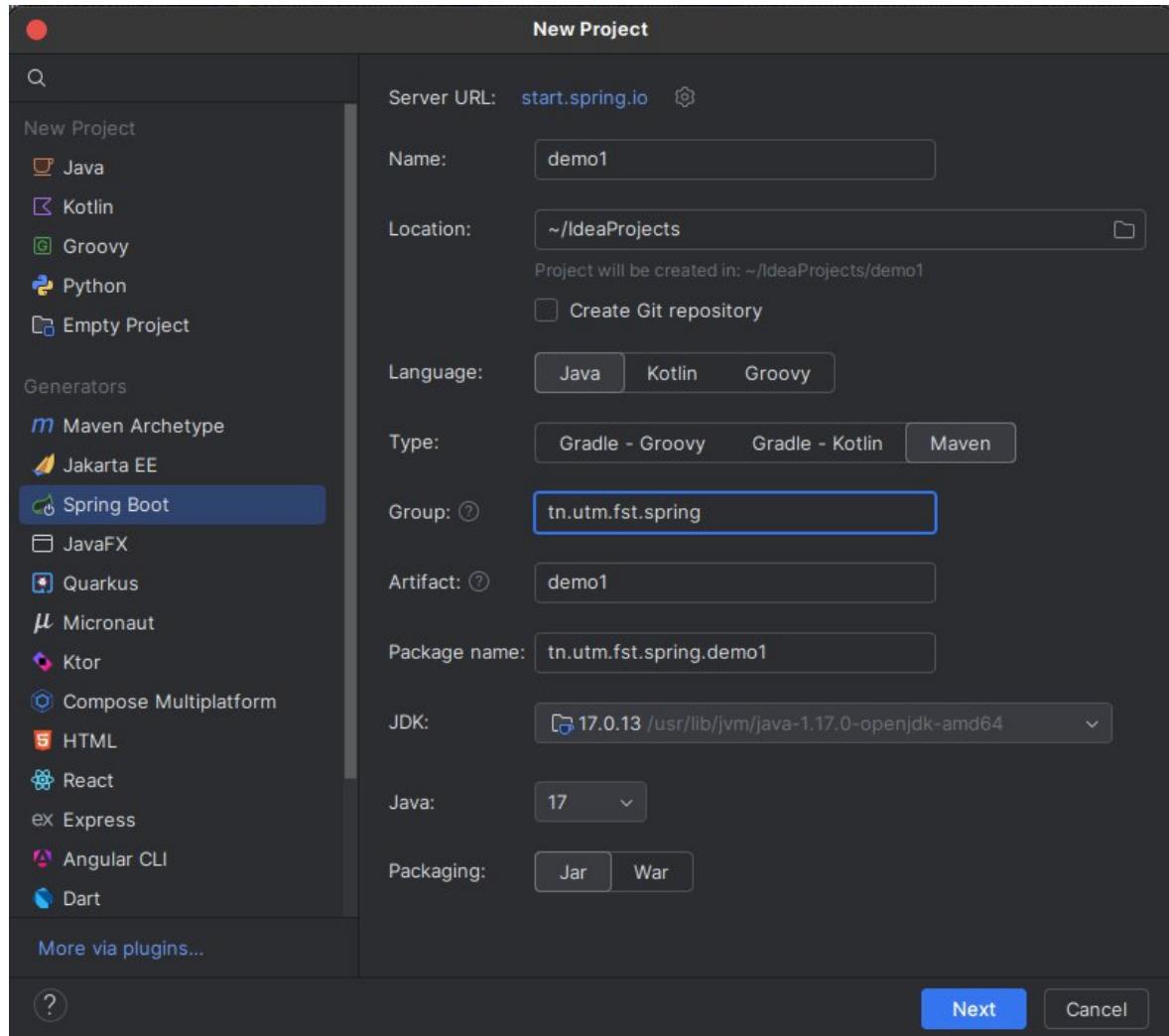
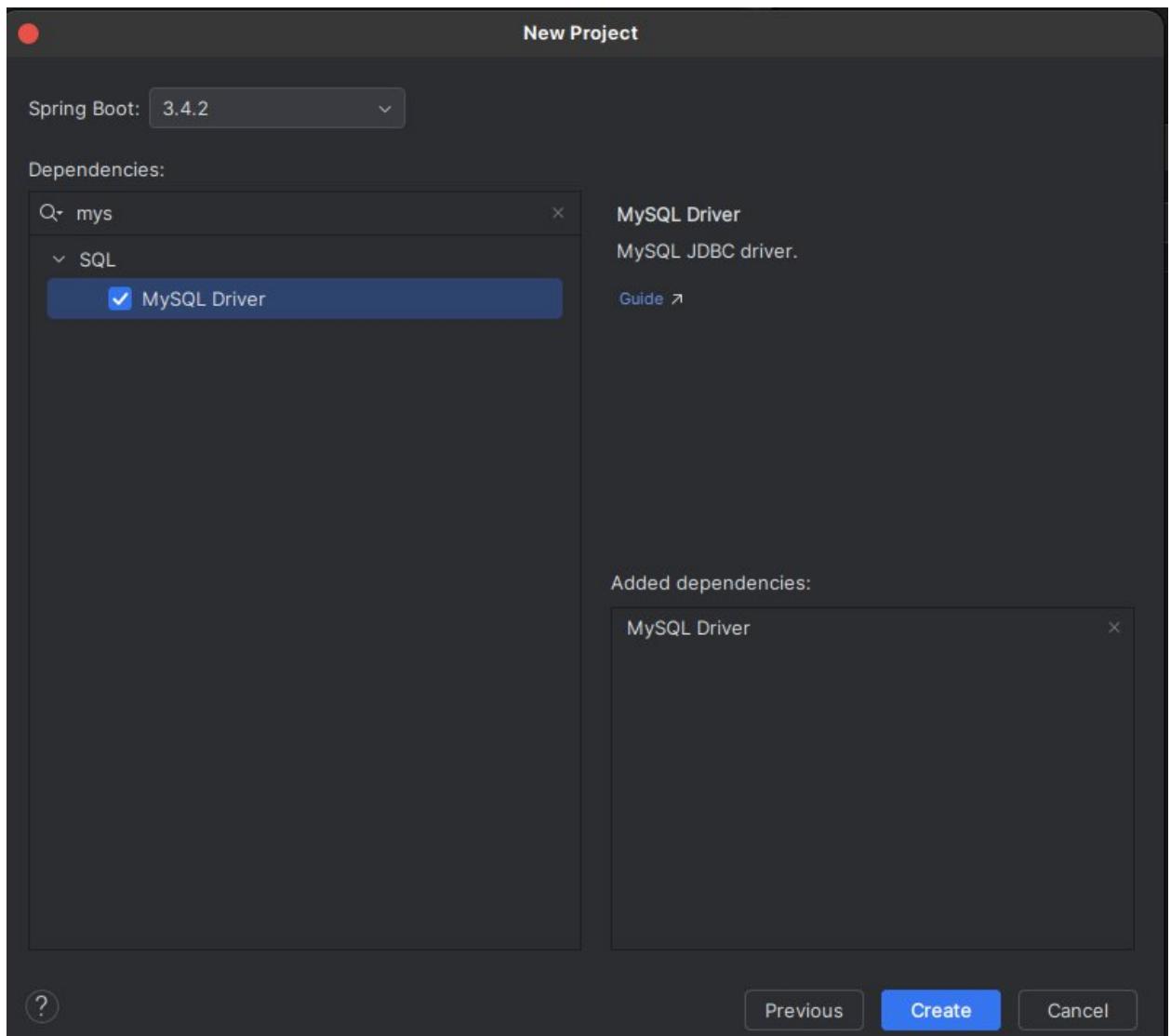
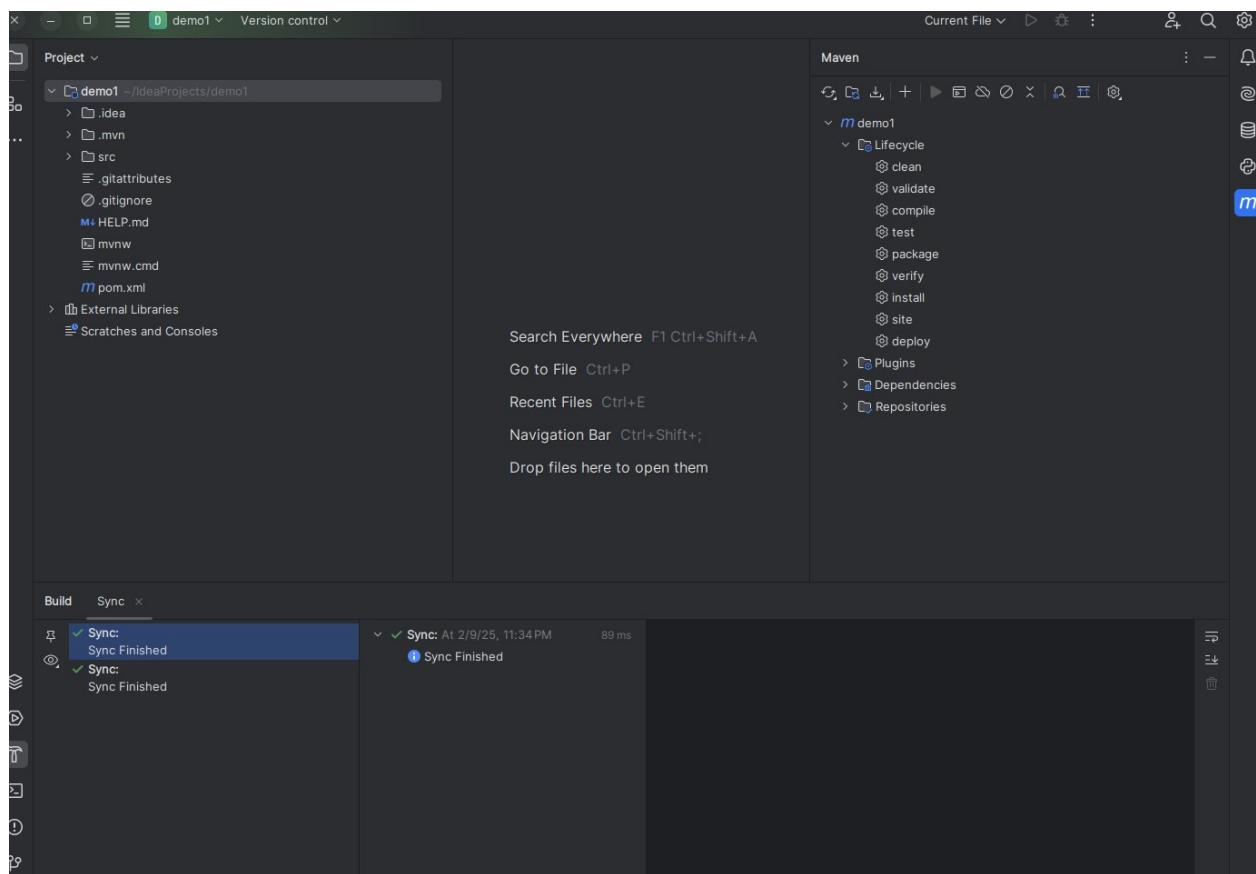
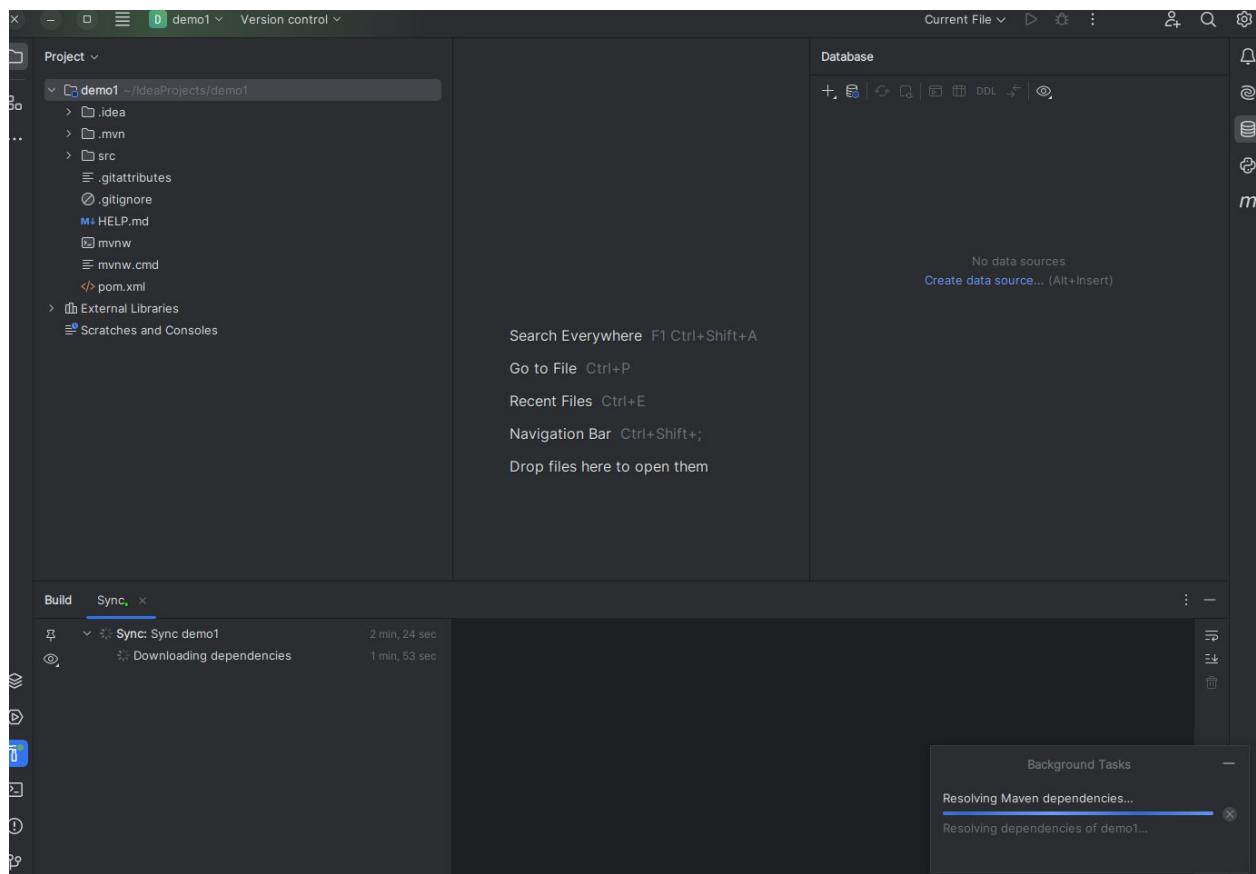


Demo 1







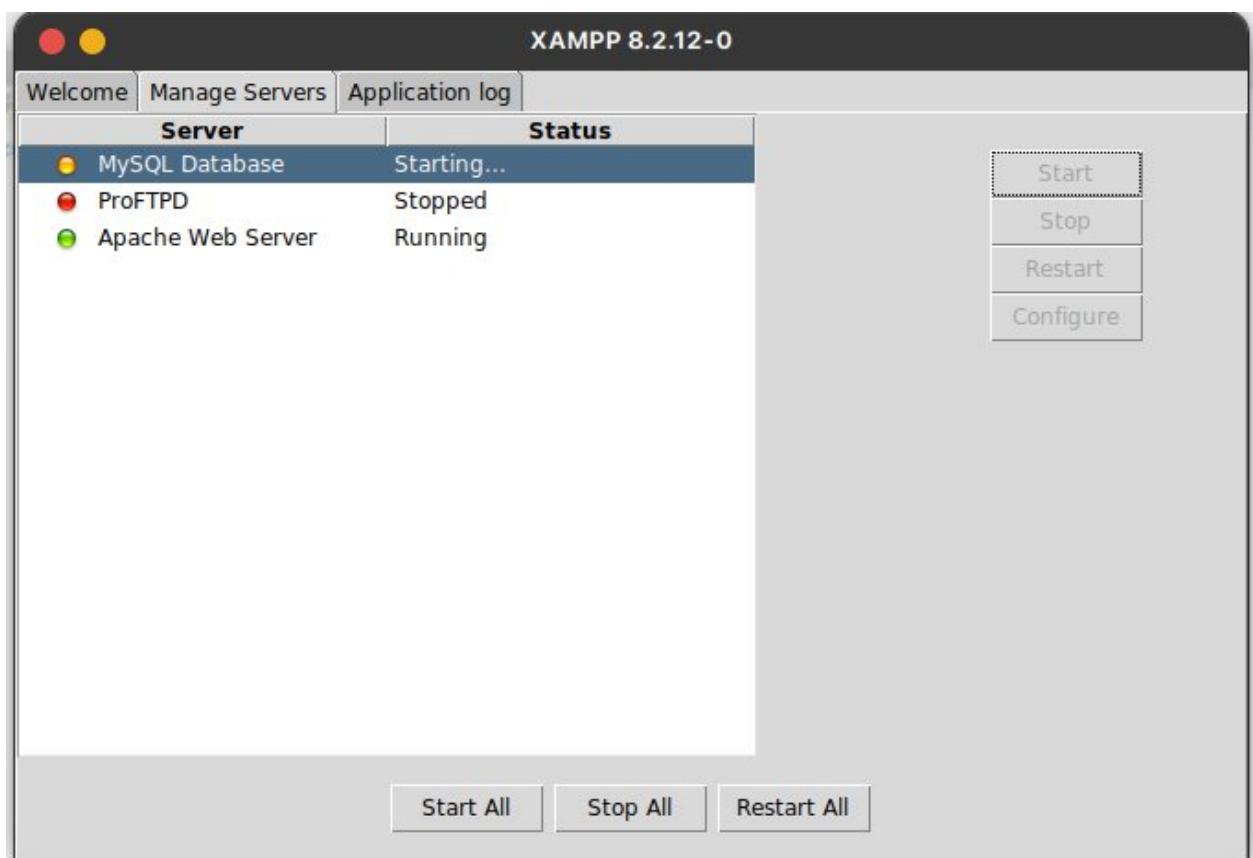
The screenshot shows the IntelliJ IDEA interface with the Maven tool window open. The 'Lifecycle' section of the Maven tool window is visible, with the 'install' goal highlighted. The 'Run' tool window below shows the command 'mvn install' being run, and the output log indicates multiple attempts to download the 'resources' artifact from the central repository.

```
[INFO] --- resources:3.3.1:resources (default-resource) @ demo1
Downloading from central: https://repo.maven.apache.org
Downloaded from central: https://repo.maven.apache.org
Downloading from central: https://repo.maven.apache.org
Downloaded from central: https://repo.maven.apache.org
Downloading from central: https://repo.maven.apache.org
```

The screenshot shows the IntelliJ IDEA interface with the Maven tool window open. The 'Lifecycle' section of the Maven tool window is visible, with the 'install' goal highlighted. The 'Run' tool window below shows the command 'mvn install' being run, and the output log indicates the successful execution of the 'install' goal, resulting in a build success message and a total execution time of 1 minute and 39 seconds.

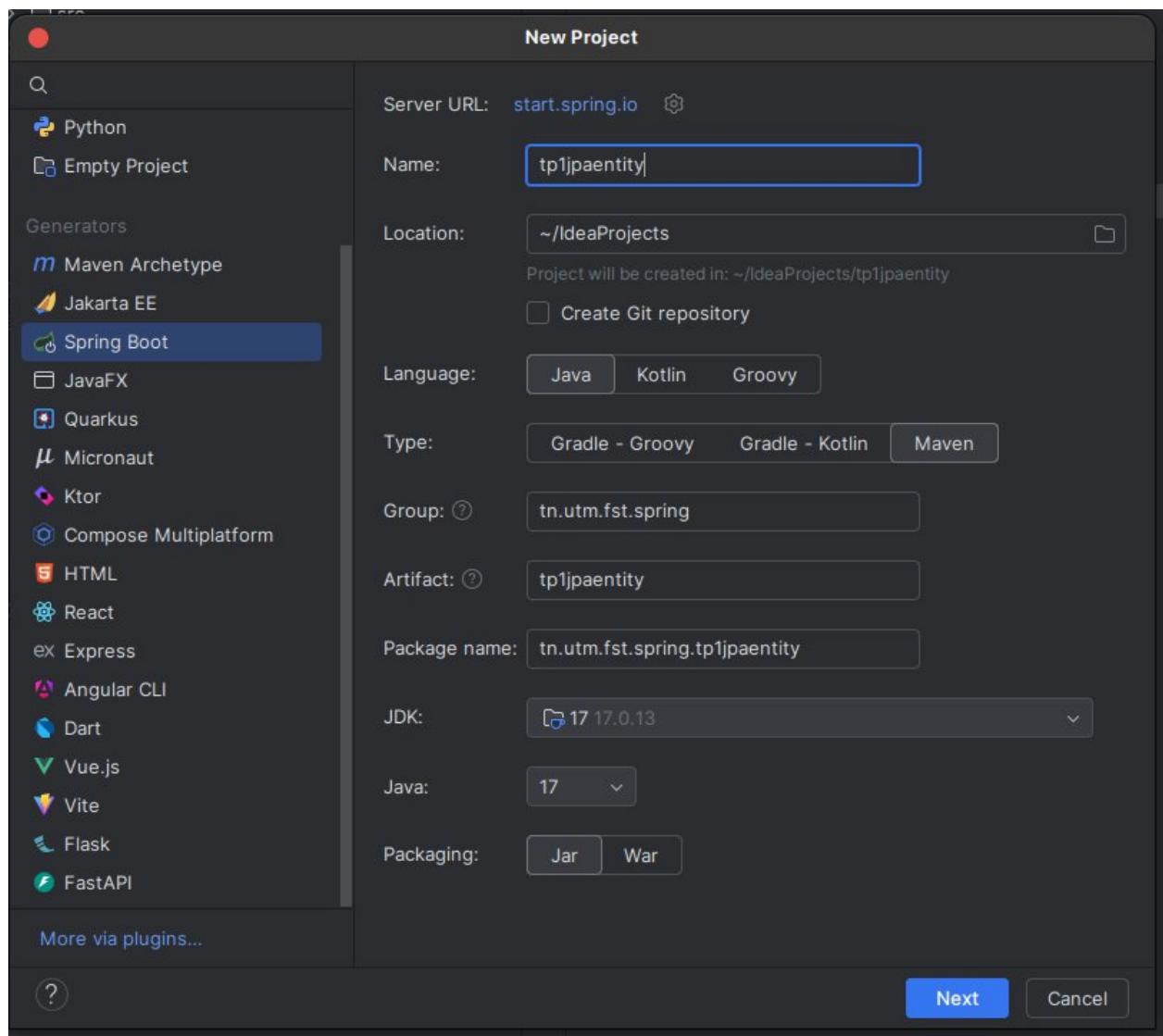
```
[INFO] Installing /home/tasnim/IdeaProjects/demo1/pom
[INFO] Installing /home/tasnim/IdeaProjects/demo1/tar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:39 min
[INFO] Finished at: 2025-02-09T23:37:05+01:00
[INFO] -----
```

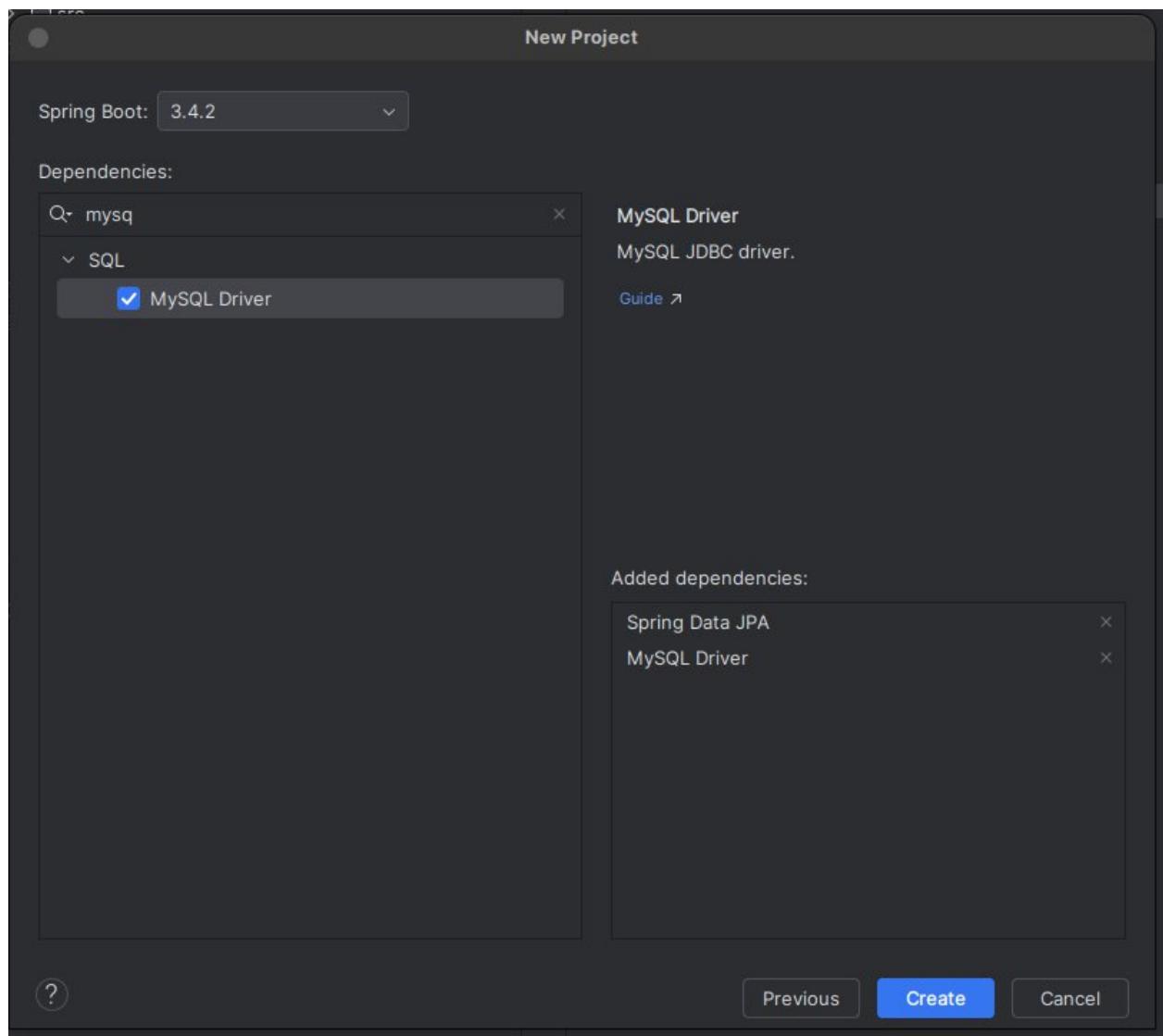
Demo2



The screenshot shows the MySQL Workbench SQL editor window. The title bar says "Run SQL query/queries on server “localhost”:". The main area contains a single SQL command:

```
1 CREATE DATABASE tp1jpaentity;
```





The screenshot shows the IntelliJ IDEA interface with a dark theme. The left sidebar displays the project structure for a Maven project named `tp1jpaentity`. The `pom.xml` file is open in the editor. The right side features the Maven tool window, which has the `Etudiant` profile selected. A context menu is open over the `install` goal in the `Lifecycle` section. The bottom panel shows the terminal output of a successful Maven build:

```
[INFO] --- install:3.1.3:install (default-install) @ tp1jpaentity ---
[INFO] Installing /home/tasniml/IdeaProjects/tp1jpaentity/pom.xml to /home/tasniml/.m2/repository/tn/utm/fst/spring/tp1jpaentity/1.0-SNAPSHOT/tp1jpaentity-1.0-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  3.242 s
[INFO] Finished at: 2025-02-10T16:53:20+01:00
[INFO] ------------------------------------------------------------------------

```

Process finished with exit code 0

localhost / localhost / (101) YouTube Accueil Demo 2 S2 - Google Text Editor NoSQL - IG localhost

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=tp1jpaentity

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phpMyAdmin

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Server: localhost » Database: tp1jpaentity » Table: etudiant

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

SELECT * FROM `etudiant`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

id_etudiant nome prenom

Query results operations

Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

Console

The screenshot shows the phpMyAdmin interface on a Mac OS X desktop. The left sidebar displays a tree view of databases and tables. The 'etudiant' table under the 'tp1jpaentity' database is selected. The main panel shows a query results page for the SQL command 'SELECT * FROM `etudiant`'. A green message at the top indicates an empty result set. Below the message, the table structure is shown with columns: id_etudiant, nome, and prenom. There are buttons for 'Query results operations' like 'Create view' and 'Bookmark this SQL query'. A 'Label:' input field and a 'Let every user access this bookmark' checkbox are present. At the bottom, there's a 'Console' tab.

localhost/phpmyadmin/index.php?route=/table/structure&dt=110% Other Bookmarks

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Server: localhost » Database: tp1jpaentity » Table: etudiant

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comment
1	id_etudiant	bigint(20)			No	None	
2	nom	varchar(255)	utf8mb4_general_ci		Yes	NULL	
3	prenom	varchar(255)	utf8mb4_general_ci		Yes	NULL	

Check all With selected: Browse Change Drop

Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after prenom Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id_etudiant	0

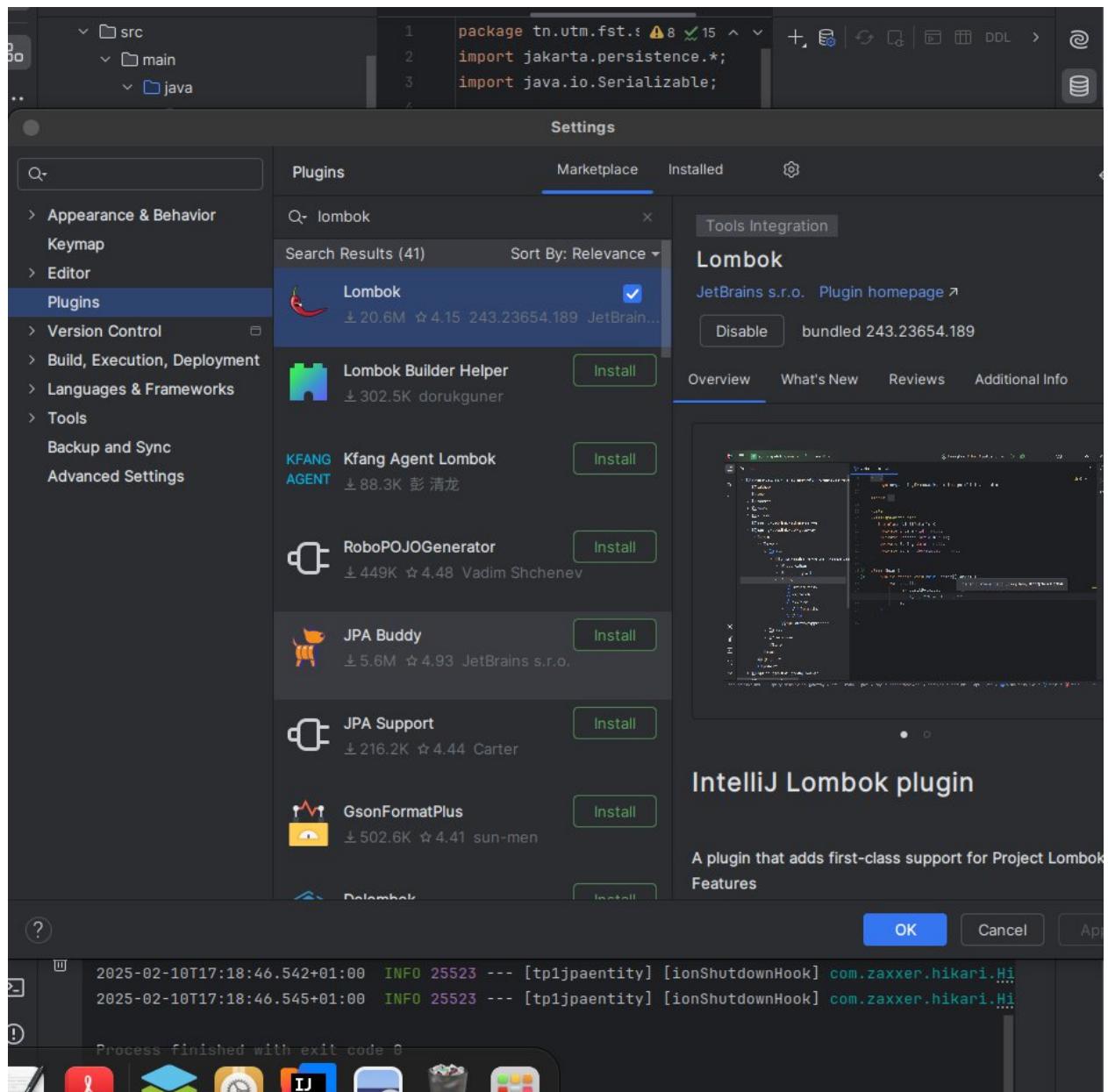
Create an index on 1 columns Go

Partitions

No partitioning defined!

Partition table

DEmo 3



The screenshot shows the IntelliJ IDEA interface with a Spring Boot project named "tp1jpaentity".

Project Structure:

- tp1jpaentity
- resources
- application.properties
- test
- java
- tn.utm.fst.spring.tp1jpaentity
- target
- .gitattributes
- .gitignore

Code Editor:

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
```

Toolbars and Menus:

- File
- Edit
- View
- Code
- Run
- Tools
- Help

Toolbars:

- File
- Edit
- Run
- Tools
- Help

Run Tab:

Run tp1jpaentity [install]

```
[INFO] --- INSTALL:3.1.3:install (@tp1jpaentity ---)
[INFO] Installing /home/tasnim/IdeaProjects/tp1jpaentity/pom.xml to /home/tasnim/.m2/repository/org/springframework/boot/3.1.3/tp1jpaentity/3.1.3/tp1jpaentity-3.1.3.pom
[INFO] Installing /home/tasnim/IdeaProjects/tp1jpaentity/target/tp1jpaentity-3.1.3.jar to /home/tasnim/.m2/repository/org/springframework/boot/3.1.3/tp1jpaentity/3.1.3/tp1jpaentity-3.1.3.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time:  3.759 s
[INFO] Finished at: 2025-02-10T17:34:55+01:00
[INFO]
```

Process finished with exit code 0

The screenshot shows a Java development environment with the following details:

- File Structure:** The project tree on the left shows a package named `tn.utm.fst.spring.entity` containing an `Etudiant` class. Other files like `application.properties` and `Tp1jpaentityApplication.java` are also visible.
- Code Editor:** The main window displays the `Etudiant` class source code. It includes annotations such as `@Entity`, `@Table(name = "Etudiant")`, and `@Id`. The code implements `Serializable` and defines fields `idEtudiant`, `prenomE`, and `nomE`.
- Run Console:** Below the code editor is a run console titled `Tp1jpaentityApplication`. It shows the following log output:

```
IISOLATION LEVEL: Undefined/unknown
Minimum pool size: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:41:12.787+01:00 INFO 31836 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
2025-02-10T17:41:12.803+01:00 INFO 31836 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:41:12.880+01:00 INFO 31836 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:41:12.883+01:00 INFO 31836 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:41:12.884+01:00 INFO 31836 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:41:12.888+01:00 INFO 31836 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
```
- Bottom Bar:** The bottom of the interface features a toolbar with various icons for navigation and file operations.

The screenshot shows a Java development environment with the following details:

- Project Structure:** The project structure is visible on the left, showing packages like `src/main/java/tn.utm.fst.spring.entity` containing classes such as `Departement` and `Etudiant`, and resources like `application.properties`.
- Code Editor:** The main editor window displays the Java code for the `Departement` class. The code includes annotations like `@Entity`, `@Id`, and `@GeneratedValue`. The code editor has a dark theme with syntax highlighting.
- Run Configuration:** A run configuration for the application `Tp1jpaentityApplication` is selected in the bottom-left panel. It shows tabs for `Console`, `Beans`, `Health`, `Mappings`, and `Environment`.
- Terminal:** The bottom panel shows a terminal window with the following log output:

```
MINIMUM_POOL_SIZE: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:48:06.442+01:00  INFO 32913 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
Hibernate: create table departement (id_depart integer not null auto_increment, nom_depart varchar(255) not null)
2025-02-10T17:48:06.474+01:00  INFO 32913 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:48:06.568+01:00  INFO 32913 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:48:06.572+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:48:06.573+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:48:06.578+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
```
- Toolbars and Menus:** The right side of the interface contains various toolbars and a menu bar with options like `Profiles`, `Lifecycle` (with `install` highlighted), `Dependencies`, and `Repositories`.

The screenshot shows a Java development environment with the following interface elements:

- Project Structure:** On the left, the project tree shows a package structure under `src/main/java`. The `Departement` class is selected. Other packages like `Etudiant`, `Tp1jpaentity`, and `Tp1jpaentityApplication` are also visible.
- Code Editor:** The main window displays the `Departement` class source code. The code includes annotations for Entity, Getter, Setter, and Serializable, and defines fields for `idDepart` and `nomDepart`.
- Dependency Tree:** Below the project tree, a "Structure" section shows the application's dependencies, including `org.springframework.boot:spring-boot-starter-data-jpa`, `jakarta.persistence:jakarta.persistence-api`, and `com.mysql:mysql-connector-j`.
- Run Console:** At the bottom, the "Run" tab is active, showing the output of the application's execution. The log output includes:

```
MINIMUM_POOL_SIZE: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:48:06.442+01:00 INFO 32913 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
Hibernate: create table departement (id_depart integer not null auto_increment, nom_depart varchar(255))
2025-02-10T17:48:06.474+01:00 INFO 32913 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:48:06.568+01:00 INFO 32913 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:48:06.572+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:48:06.573+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:48:06.578+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
```

The status bar at the bottom indicates "Process finished with exit code 0".

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=tp 110% ☆

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Historique
Questions
test
tp1jpaentity
New
departement
Columns
Indexes
etudiant
Columns
Indexes

Server: localhost > Database: tp1jpaentity > Table: departement

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

SELECT * FROM `departement`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

id_depart nom_depart

Query results operations

Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

The screenshot shows the phpMyAdmin interface. On the left, there's a tree view of databases and tables. The 'departement' table under the 'tp1jpaentity' database is selected. In the main panel, a query has been run: 'SELECT * FROM `departement`'. The result set is empty, indicated by the message 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)'. Below the query, there are several operation buttons like 'Edit inline', 'Edit', 'Explain SQL', etc. A 'Query results operations' section includes a 'Create view' button. A 'Bookmark this SQL query' section allows users to save the query with a label and give it access to all users. The bottom of the screen shows a Mac OS X dock with various application icons.

The screenshot shows an IDE interface with the following details:

- Project Structure:** The project structure is displayed on the left, showing a package named `tn.utm.fst.spring` containing `entity`, `resources`, and `application.properties`. Inside `entity`, there are two classes: `Departement` and `Etudiant`.
- Code Editor:** The main editor window displays the `Departement` class code. The code includes imports for `jakarta.persistence.*`, `lombok.Getter`, `lombok.Setter`, `java.io.Serializable`, and `java.util.List`. It uses annotations like `@Entity`, `@Id`, `@GeneratedValue(strategy = GenerationType.IDENTITY)`, `@OneToMany`, and `@OneToOne`. The class implements `Serializable` and has a constructor and a list of `Etudiant` objects.
- Dependency Structure:** A sidebar titled "Structure" shows the dependency tree. It lists various dependencies such as `Parent (org.springframework.boot:org`, `Licenses`, `Developers`, `Developer`, `Scm`, `Properties`, and `Dependencies`, along with specific artifacts like `org.springframework.boot:spring`, `jakarta.persistence:jakarta.persis`, and `com.mysql:mysql-connector-j:<`.
- Run Tab:** The "Run" tab is active, showing the application name `Tp1jpaentityApplication`.
- Console Tab:** The "Console" tab is selected, displaying the application's log output. The log shows the following messages:
 - Minimum pool size: undefined/unknown
 - Maximum pool size: undefined/unknown
 - 2025-02-10T17:48:06.442+01:00 INFO 32913 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
 - Hibernate: create table departement (id_depart integer not null auto_increment, nom_depart varchar(
 - 2025-02-10T17:48:06.474+01:00 INFO 32913 --- [tp1jpaentity] [main] j.LocalContainerEnti
 - 2025-02-10T17:48:06.568+01:00 INFO 32913 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
 - 2025-02-10T17:48:06.572+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
 - 2025-02-10T17:48:06.573+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
 - 2025-02-10T17:48:06.578+01:00 INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
- Bottom Bar:** The bottom bar contains icons for file operations (New, Open, Save, etc.) and other application tools.

The screenshot shows an IDE interface with the following details:

- Project Structure:** The project tree on the left shows a package structure under `src/main/java`. It includes a `tn.utm.fst.spring` package containing `entity`, `Departement`, and `Etudiant` classes. There are also `tp1jpaentity` and `Tp1jpaentityApplication` sub-packages. A file named `application.properties` is also present.
- Code Editor:** The right pane displays the Java code for the `Etudiant` class. The code defines an entity with an ID, a many-to-one relationship to `Departement`, and getters/setters for `prenomE` and `nomE`. It also includes a constructor and an empty constructor.
- Run Log:** Below the code editor is a "Run" tab with the application name `Tp1jpaentityApplication`. The log output shows several INFO messages from the Hibernate library during the creation of the `departement` table. The log ends with a message indicating the process finished with exit code 0.

```
package tn.utm.fst.spring.entity;
import jakarta.persistence.*;
import lombok.*;
import java.io.Serializable;

@Entity
@Table( name = "Etudiant")
@Getter
@Setter
public class Etudiant implements Serializable {
    @Id
    @GeneratedValue (strategy = GenerationType.IDENTITY)
    @Column(name="idEtudiant")
    private Long idEtudiant; // Clé primaire
    private String prenomE;
    private String nomE;
    @ManyToOne
    private Departement dept;
    // Constructeur et accesseurs (getters) et mutateurs (setters)

    public Etudiant() {
    }
}
```

```
Run Tp1jpaentityApplication ×
G | : Console Beans Health Mappings Environment
minimum pool size: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:48:06.442+01:00  INFO 32913 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla...
Hibernate: create table departement (id_depart integer not null auto_increment, nom_depart varchar(...
2025-02-10T17:48:06.474+01:00  INFO 32913 --- [tp1jpaentity] [main] j.LocalContainerEnti...
2025-02-10T17:48:06.568+01:00  INFO 32913 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti...
2025-02-10T17:48:06.572+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti...
2025-02-10T17:48:06.573+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi...
2025-02-10T17:48:06.578+01:00  INFO 32913 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi...
Process finished with exit code 0
```

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The left sidebar shows a project tree with packages like `src/main/java/tn.utm.fst.spring.entity` containing classes like `Departement` and `Etudiant`, and a properties file `application.properties`.
- Editor:** The main editor area displays Java code for the `Etudiant` class. The code includes annotations such as `@Entity`, `@Table(name = "Etudiant")`, and `@ManyToOne`. A context menu is open over the `Etudiant` class, with the `install` option highlighted.
- Run Tab:** The bottom navigation bar has a "Run" tab selected, showing the command `tp1jpaentity [install]`.
- Terminal:** The bottom panel shows the output of a Maven `install` command:

```
[INFO] --- install:3.1.3:install (default-install) @ tp1jpaentity ---
[INFO] Installing /home/tasnim/IdeaProjects/tp1jpaentity/pom.xml to /home/tasnim/.m2/repository/tn/utm/fst/tp1jpaentity/1.0-SNAPSHOT/tp1jpaentity-1.0-SNAPSHOT.pom
[INFO] Installing /home/tasnim/IdeaProjects/tp1jpaentity/target/tp1jpaentity-1.0-SNAPSHOT.jar to /home/tasnim/.m2/repository/tn/utm/fst/tp1jpaentity/1.0-SNAPSHOT/tp1jpaentity-1.0-SNAPSHOT.jar
[INFO] 
[INFO] BUILD SUCCESS
[INFO] 
[INFO] Total time:  2.059 s
[INFO] Finished at: 2025-02-10T17:53:39+01:00
[INFO] 
```

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The left sidebar displays the project structure under the `src` directory. It includes `main`, `java`, `resources`, and `test` packages. Within `java`, there are `tn.utm.fst.spring`, `entity`, and `Tp1jpaentityApplication` packages. The `entity` package contains `Departement` and `Etudiant` entities.
- Code Editor:** The central area shows the `Etudiant` entity class. The code includes annotations like `@Entity`, `@Table(name = "Etudiant")`, and `@ManyToOne`. The code editor has syntax highlighting and code completion features.
- Toolbars:** The top right features standard Java IDE toolbars for file operations, search, and navigation.
- Run Configuration:** The bottom navigation bar shows the current run configuration is `Tp1jpaentityApplication`.
- Console:** The bottom panel displays the application's log output. It shows several `INFO` messages related to HikariCP pool configuration and startup hooks.

```
1  pack 2 9 ^ v
2
3 import jakarta.persistence.*;
4 import lombok.*;
5
6 import java.io.Serializable;
7
8 @Entity
9 @Table(name = "Etudiant")
10 @Getter
11 @Setter
12 public class Etudiant implements Serializable {
13     @Id
14     @GeneratedValue(strategy = GenerationType.IDENTITY)
15     @Column(name = "id")
16     private Long id;
17     @Column(name = "nom")
18     private String nom;
19     @Column(name = "prenom")
20     private String prenom;
21     @ManyToOne
22     private Departement departement;
23
24     // Constructeur et autres méthodes
25
26     public Etudiant() {
27 }
```

```
Run Tp1jpaentityApplication ×
G | : Console Beans Health Mappings Environment
ISOLATION LEVEL: Undefined/unknown
↑ Minimum pool size: undefined/unknown
↓ Maximum pool size: undefined/unknown
2025-02-10T17:54:05.556+01:00 INFO 34285 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
2025-02-10T17:54:05.595+01:00 INFO 34285 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:54:05.703+01:00 INFO 34285 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:54:05.706+01:00 INFO 34285 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:54:05.710+01:00 INFO 34285 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:54:05.714+01:00 INFO 34285 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
Process finished with exit code 0
```

localhost/phpmyadmin/index.php?route=/table/structure&db=tp1jpaentity

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- qa_app
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 - Questions
- test
- tp1jpaentity
 - New
 - departement
 - Columns
 - Indexes
 - departement_etos
 - etudiant
 - Columns
 - Indexes

Server: localhost > Database: tp1jpaentity > Table: etudiant

Table structure

#	Name	Type	Collation	Attributes	Null	Default
1	id_etudiant ⚡	bigint(20)			No	None
2	nom	varchar(255)	utf8mb4_general_ci		Yes	NULL
3	prenom	varchar(255)	utf8mb4_general_ci		Yes	NULL
4	dept_id_depart ⚡	int(11)			Yes	NULL

Check all With selected: Browse Change Drop

Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after dept_id_depart Go

Indexes

Action	Keyname	Type	Unique	Packed
Edit Rename Drop	PRIMARY	BTREE	Yes	No
Edit Rename Drop	FKret26tn8w2omptbrqbvnepe4	BTREE	No	No

Create an index on 1 columns Go

Partitions

No partitioning defined!

Partition table

The screenshot shows a Java development environment with the following details:

- Project Structure:** The project is named "Tp1jpaentityApplication". It contains a "src" directory with "main", "java", and "resources" sub-directories. The "java" directory has packages "tn.utm.fst.spring.entity" containing classes "Departement" and "Etudiant".
- Code Editor:** The code for the "Departement" class is displayed. It includes imports for jakarta.persistence, lombok.Getter, lombok.Setter, java.io.Serializable, and java.util.List. The class is annotated with @Entity, @Getter, and @Setter. It has an @Id and a @GeneratedValue(strategy = GenerationType.IDENTITY) annotation. A private field "idDepart" is present. A @OneToMany annotation with mappedBy = "dept" maps to a list of "Etudiant" objects named "etos". A constructor "Departement()" is also shown.
- Toolbars and Menus:** Standard IDE toolbars and menus are visible at the top.
- Run Tab:** The "Run" tab is selected, showing the configuration for "Tp1jpaentityApplication".
- Console Tab:** The "Console" tab is active, displaying log output from the application. The logs show various INFO messages related to bean initialization and shutdown hooks.
- Bottom Status Bar:** The status bar shows the message "Process finished with exit code 0".

```
import jakarta.persistence.*;
import lombok.Getter;
import lombok.Setter;

import java.io.Serializable;
import java.util.List;

@Entity
@Getter
@Setter
public class Departement implements Serializable {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Integer idDepart ;
    private String nomDepart ;
    @OneToMany (mappedBy = "dept")
    private List<Etudiant> etos;
    public Departement() {
    }
}
```

```
ISOLATION LEVEL: Undefined/unknown
Minimum pool size: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:54:05.556+01:00  INFO 34285 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
2025-02-10T17:54:05.595+01:00  INFO 34285 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:54:05.703+01:00  INFO 34285 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:54:05.706+01:00  INFO 34285 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:54:05.710+01:00  INFO 34285 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:54:05.714+01:00  INFO 34285 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
```

The screenshot shows an IDE interface with the following details:

- Project Structure:** The project structure is displayed on the left, showing a package named `tn.utm.fst.spring.entity` containing classes `Departement` and `Etudiant`.
- Code Editor:** The right pane displays the Java code for the `Departement` class.
- Code Content:**

```
package tn.utm.fst.spring.entity;

import jakarta.persistence.*;
import lombok.Getter;
import lombok.Setter;

import java.io.Serializable;
import java.util.List;

@Entity
@Getter
@Setter
public class Departement implements Serializable {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Integer idDepart ;
    private String nomDepart ;
    @OneToMany (mappedBy = "dept")
    private List<Etudiant> etos;
    public Departement() {
    }
}
```
- Run Tab:** The "Run" tab is selected, showing the application name `Tp1jpaentityApplication`.
- Console Tab:** The "Console" tab is active, displaying the following log output:

```
ISOLATION LEVEL: Undefined/unknown
Minimum pool size: undefined/unknown
Maximum pool size: undefined/unknown
2025-02-10T17:59:25.183+01:00  INFO 35143 --- [tp1jpaentity] [main] o.h.e.t.j.p.i.JtaPla
2025-02-10T17:59:25.215+01:00  INFO 35143 --- [tp1jpaentity] [main] j.LocalContainerEnti
2025-02-10T17:59:25.310+01:00  INFO 35143 --- [tp1jpaentity] [main] t.u.f.s.t.Tp1jpaenti
2025-02-10T17:59:25.314+01:00  INFO 35143 --- [tp1jpaentity] [ionShutdownHook] j.LocalContainerEnti
2025-02-10T17:59:25.315+01:00  INFO 35143 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
2025-02-10T17:59:25.319+01:00  INFO 35143 --- [tp1jpaentity] [ionShutdownHook] com.zaxxer.hikari.Hi
```
- Bottom Bar:** The bottom bar includes icons for file operations like New, Open, Save, and Run, along with other application-specific icons.