***Spring JPA Data Custom Query***

***SQL***

***Select \* from trainer here trainer is table name \* means all columns from trainer table.***

***Select \* from trainer where tech=’Java’***

***Select \* from student where age > 25***

***Select tid,tname from trainer trainer is table name and tid and tname is column name.***

***JPQL***

***Select t from Trainer t t is object and Trainer is entity class.***

***Select t from Trainer t where t.tname=’Java’; t is object and tname is variable part of entity class***

***Select t from Trainer t where t.tech=’Java’;***

***Select s from Student s where s.age=25 Student is entity class, s is object and age is property name part of entity class.***

***To write a custom query in spring data we need to write the method without body and annotation @Query and @Param annotation is use to pass the dynamic value to JPQL query using label query concept.***

***Retrieve partial object.***

***select t.tname from Trainer t retrieve only one property details***

***Select t.tid, t.tname from Trainer t retrieve more than one property details.***

***Custom DML Operation in Spring JPA Data***

***Delete from Student s where s.age>=25;***

***When we do DML operation please use @Modify annotation with @Query annotation and service layer we need to use @Transactional annotation.***

***Composite primary key***

***Creating primary key with combination of more than one column.***

***Both column can hold duplicate record but combination must be unique.***

***Course***

***Cid(PK, auto increment) title (BE,BTech,MTech) etc***

***100 BE***

***101 Btech***

***Students***

***Sid(PK,auto increment) sname***

1. ***Raj***
2. ***Ravi***

***Enrolment***

***Eid CID SId Composite pk***

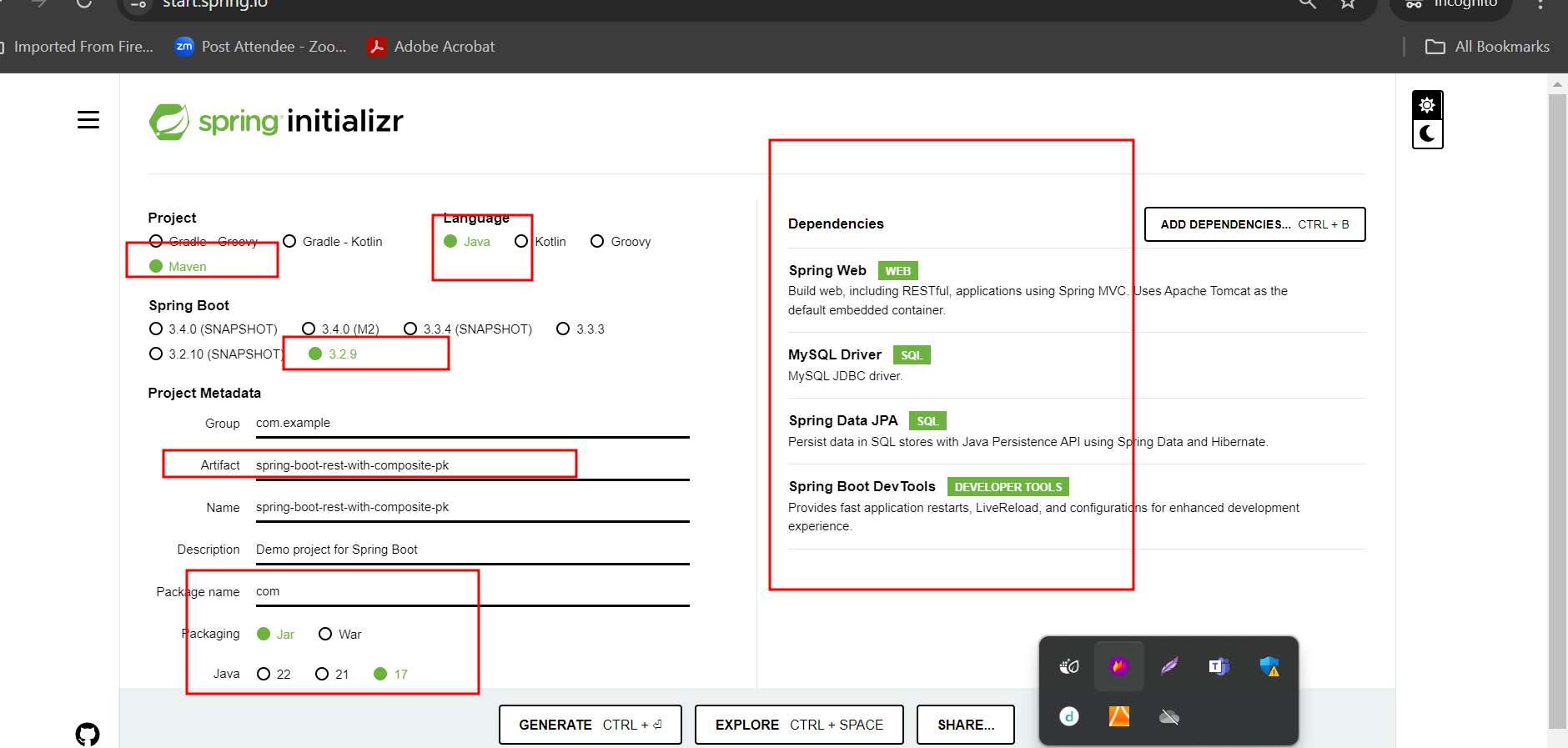
***111 100 1***

***222 100 2***

***333 101 1***

***444 101 2***

***555 101 1 Error***



***After development we need to create jar or war file. Generally we create war file.***

***Run the spring boot project using jar file.***

***Open the terminal or command prompt inside a project folder and run command as***

***mvn clean : to clean old build file***

***mvn package : this command is use to create jar or war file.***

***After successfully executed this command inside target folder it will create jar file.***

***1st***

***Using cd target (moving inside target folder)***

***java -jar filename.jar THIS COMMAND IS USE TO RUN THE JAR FILE***

***or***

***2nd***

***mvn spring-boot:run running the program using spring boot CLI***