



**SolutionSI**

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**UPUTSTVO ZA INSTALACIJU**

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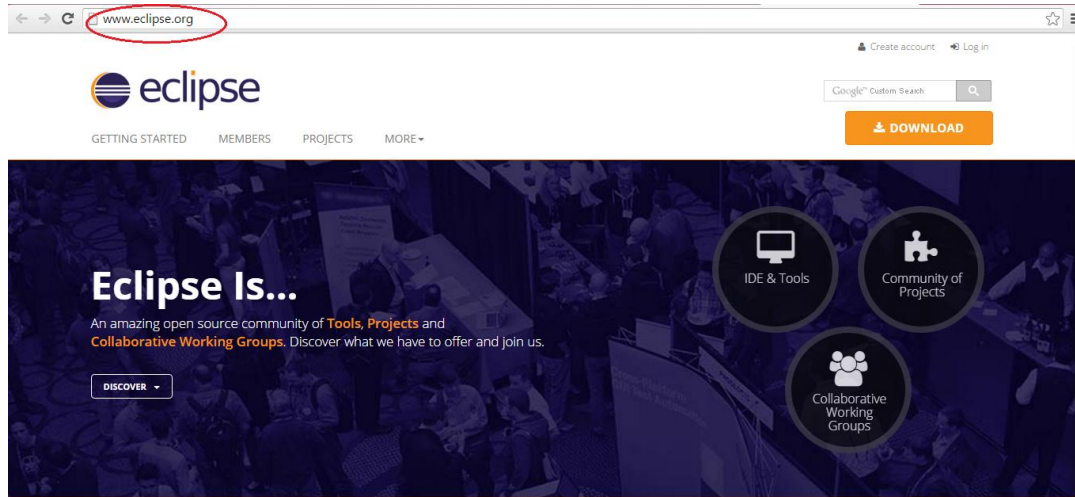
## Uvod

Ovo uputstvo sadrži detaljne upute za instalacije koje su potrebne pri implementaciji projekta. Uputstvo opisuje sljedeće instalacije:

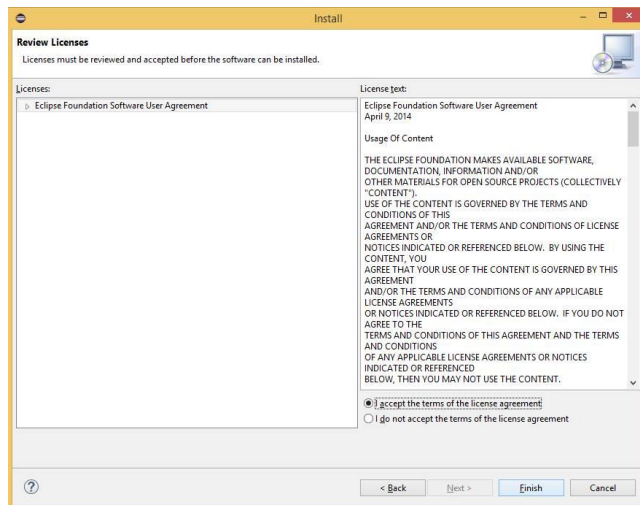
- Instalacija okruženja Eclipse Mars
- Instalacija WindowBuilder
- Instalacija MySQL servera 5.7.12
- Instalacija JDBC 5.1.38
- Instalacija Maven 3.3.9
- Instalacija Hibernate Tools

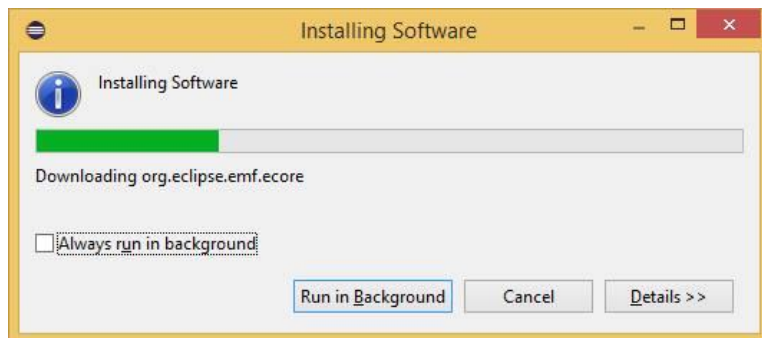
## Instalacija okruženja Eclipse Mars

Eclipse se instalira preuzimanjem sa stranice [www.eclipse.org](http://www.eclipse.org). Preporučujemo da downloadujete paket pod nazivom “Eclipse IDE for Java Developers” koji uključuje Java kompajler i sve potrebne alate za razvoj Java aplikacija.



Instalacija za Windows OS je u formi ZIP arhive koju jednostavno raspakujete u neki folder npr. C:\eclipse. U ovom folderu naći ćete program eclipse.exe. Samo dvokliknite na njega da biste pokrenuli Eclipse.



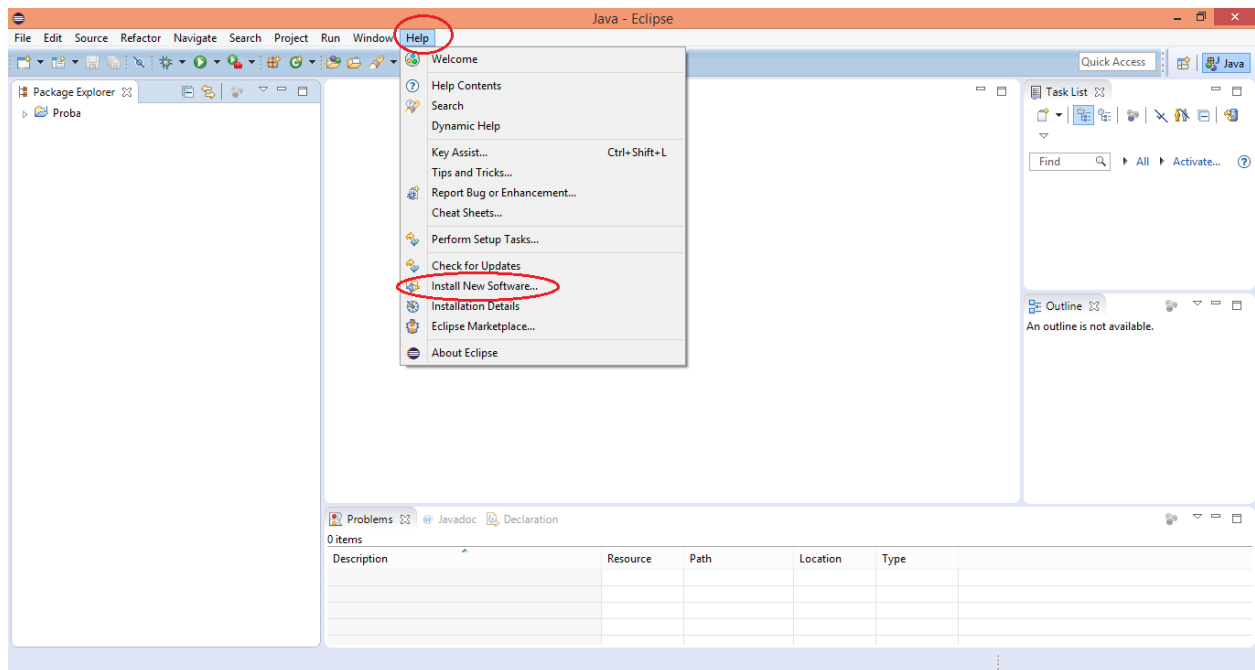


## Instalacija WindowBuilder

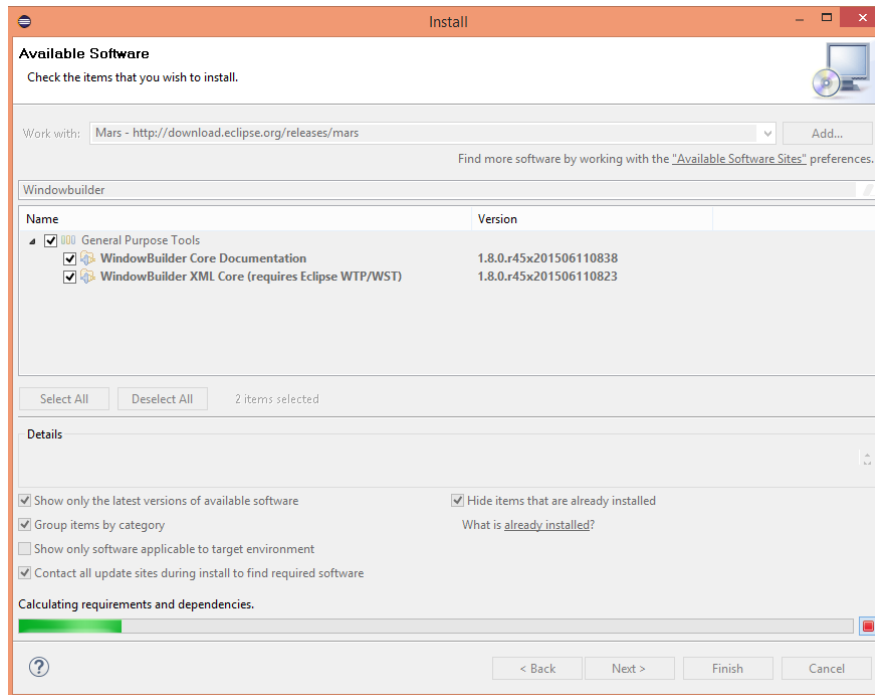
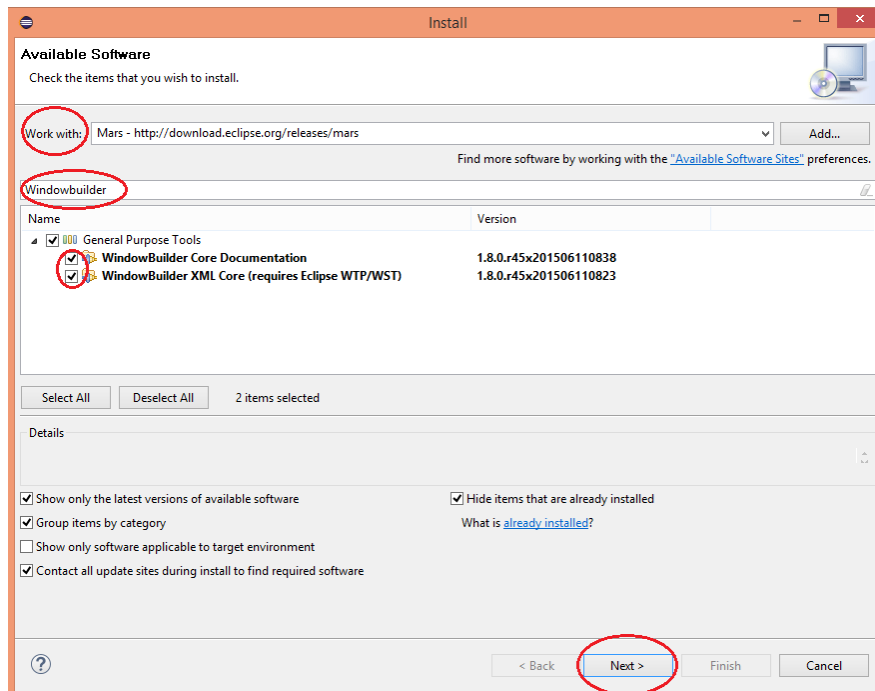
Kao dodatak Eclipse-u instalirat ćemo **WindowBuilder** za dizajniranje Java GUI (Graphical User Interface) koji sadrži alate za dizajniranje jednostavnih i složenih formi.

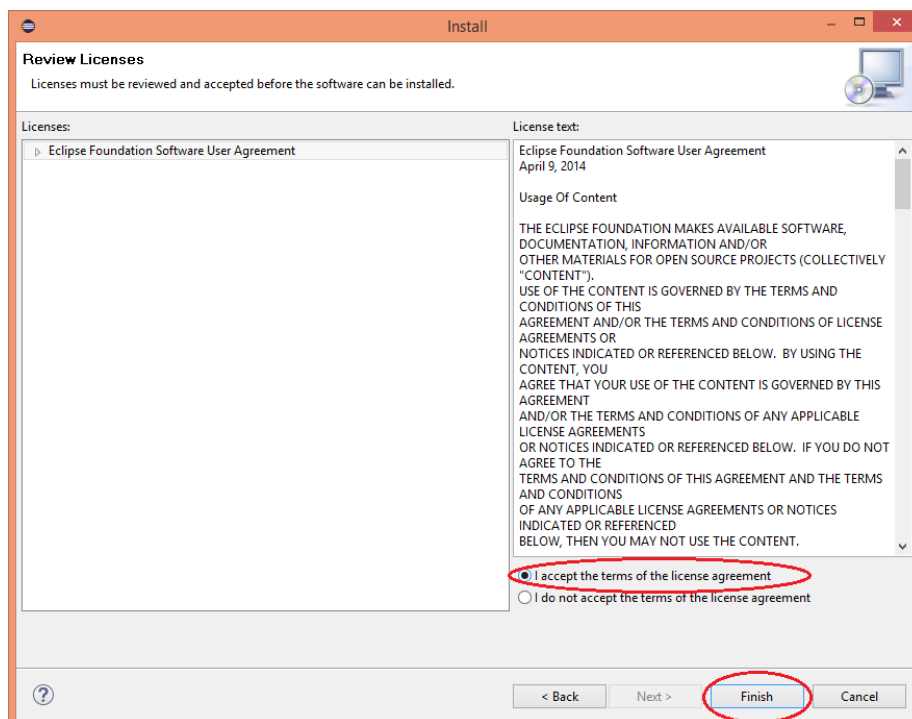
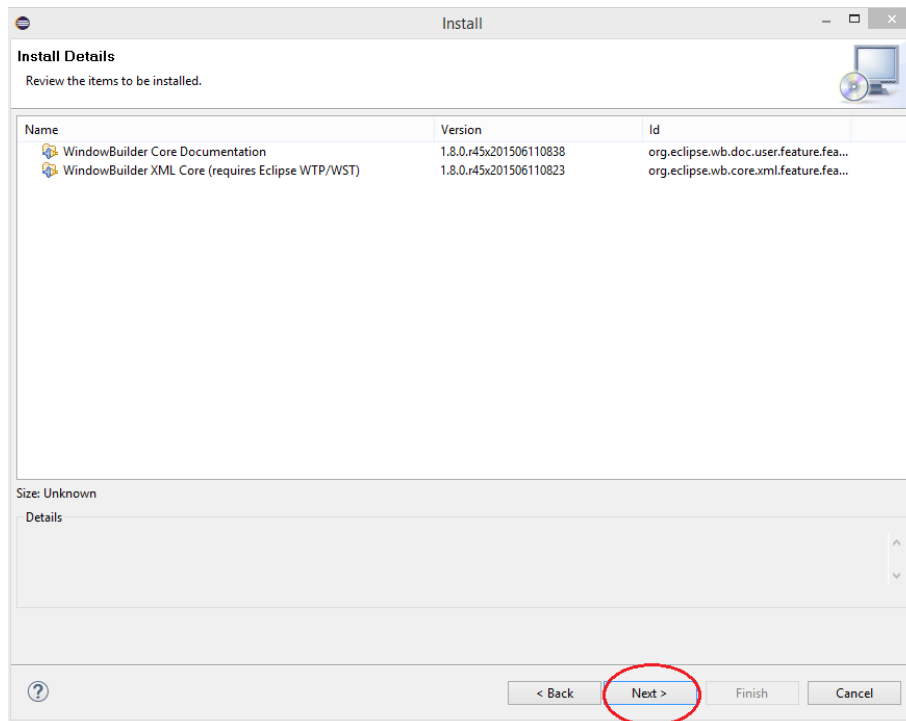
Naredne slike prikazuju način instalacije WindowBuilder-a.

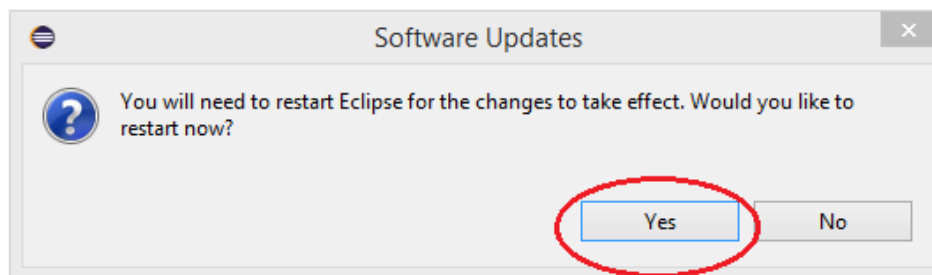
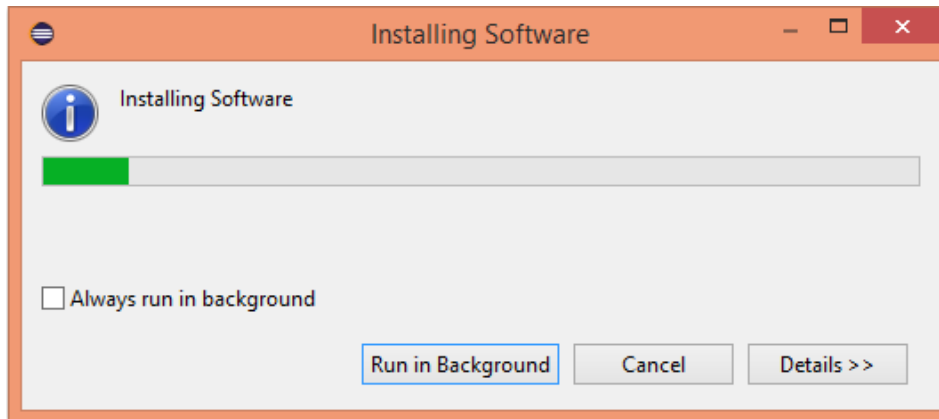
Za početak potrebno je u Vašem Eclipse okruženju kliknuti na opciju **Help -> Install New Software**.



Nakon toga u polje “Work with” potrebno je ukucati <http://download.eclipse.org/releases/mars>, u polje za pretragu ukucati WindowBuilder i pritisnite Enter. Izaberite pakete WindowBuilder Core i WindowBuilder XML Core, instalirajte i resetujte Eclipse.







## Instalacija MySQL servera 5.7.12

Da biste preuzeli MySQL server, idite na stranicu [www.mysql.com](http://www.mysql.com). Idite na **Products** -> **MySQL Community Edition** -> **Download Now** -> **Download MySQL Community Server**.





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- MySQL Replication** to improve application performance and scalability
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- Triggers** to enforce complex business rules at the database level
- Views** to ensure sensitive information is not compromised
- Performance Schema** for user/application level monitoring of resource consumption
- Information Schema** to provide easy access to metadata
- MySQL Connectors** (ODBC, JDBC, .NET, etc) for building applications in multiple languages
- MySQL Workbench** for visual modeling, SQL development and administration

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dev.mysql.com/downloads/

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## MySQL Community Downloads

**MySQL Community Server (GPL)**  
(Current Community Server Release: 5.7.12)  
MySQL Community Server is the world's most popular open source database.  
[DOWNLOAD](#)

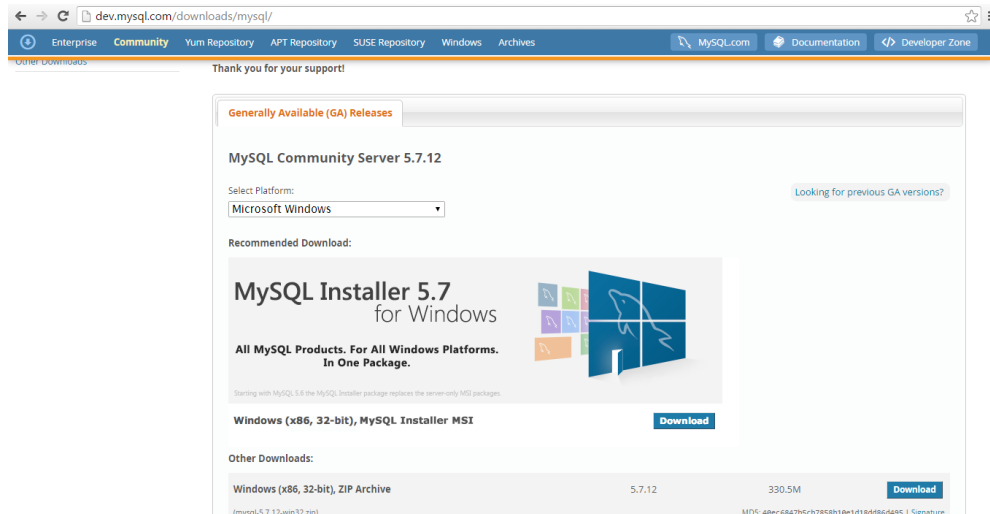
**MySQL Cluster (GPL)**  
(Current Generally Available Release: 7.4.11)  
MySQL Cluster is a real-time, open source transactional database.  
[DOWNLOAD](#)

**MySQL Fabric (GPL)**  
MySQL Fabric provides a framework for managing High Availability and Sharding.  
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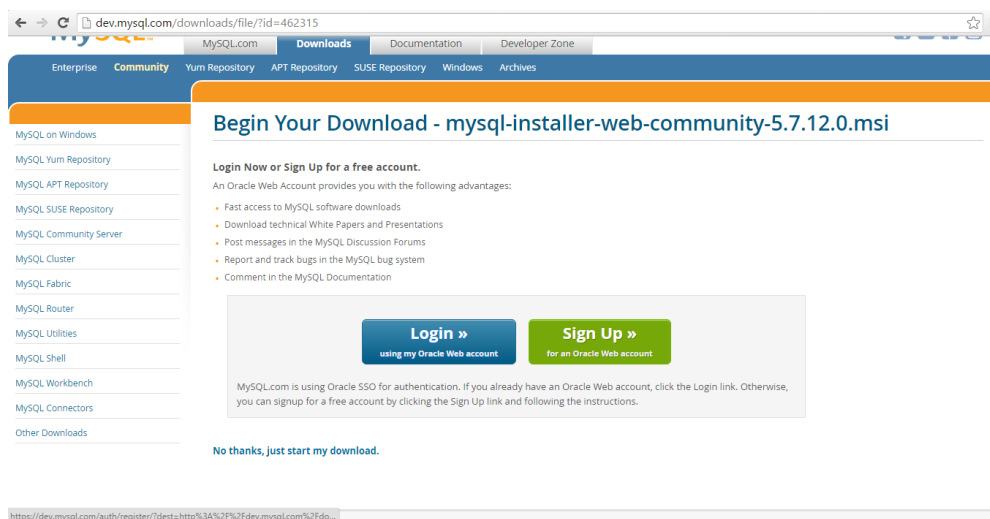
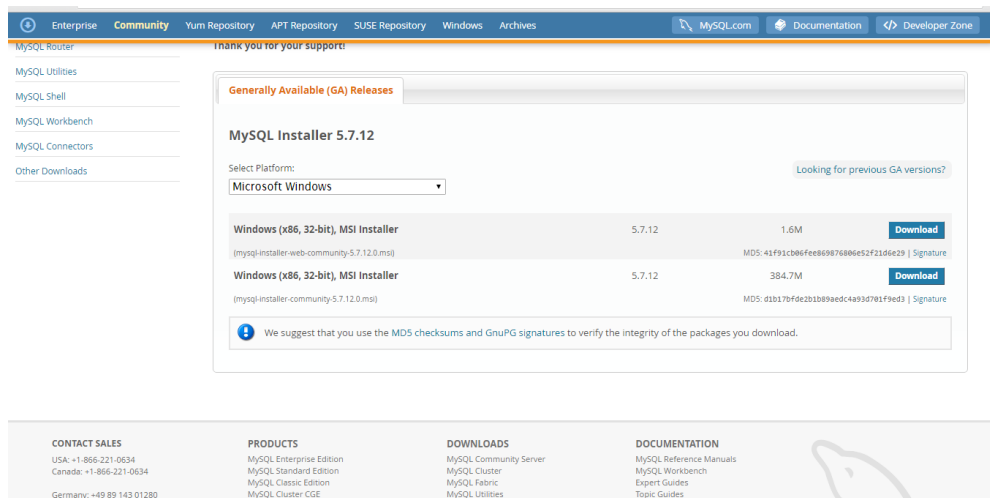
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MySQL Enterprise Edition includes the most comprehensive set of advanced features and management tools for MySQL.  
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MySQL Utilities  
MySQL Shell  
MySQL Workbench  
MySQL Connectors  
Other Downloads

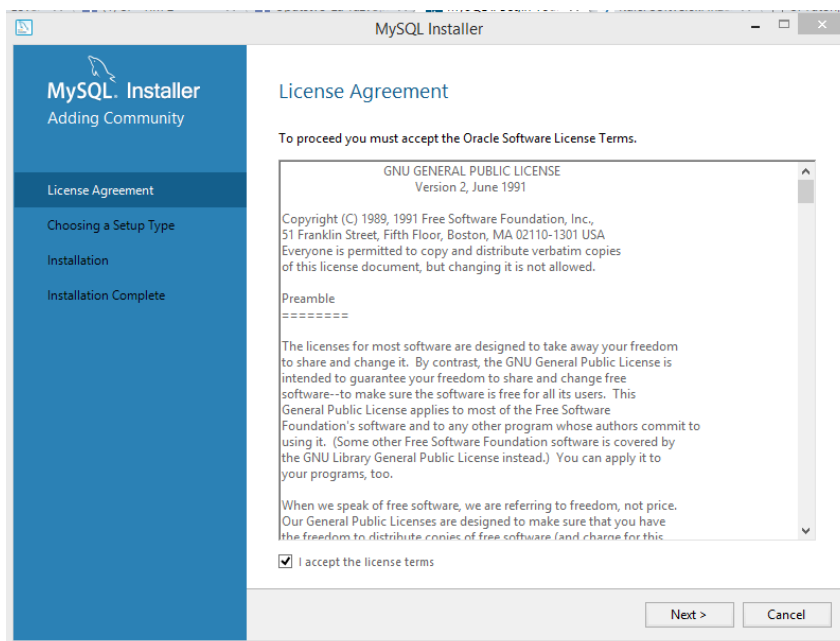
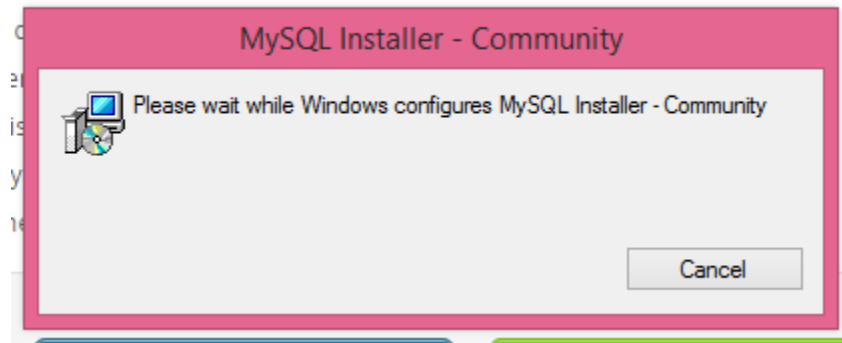


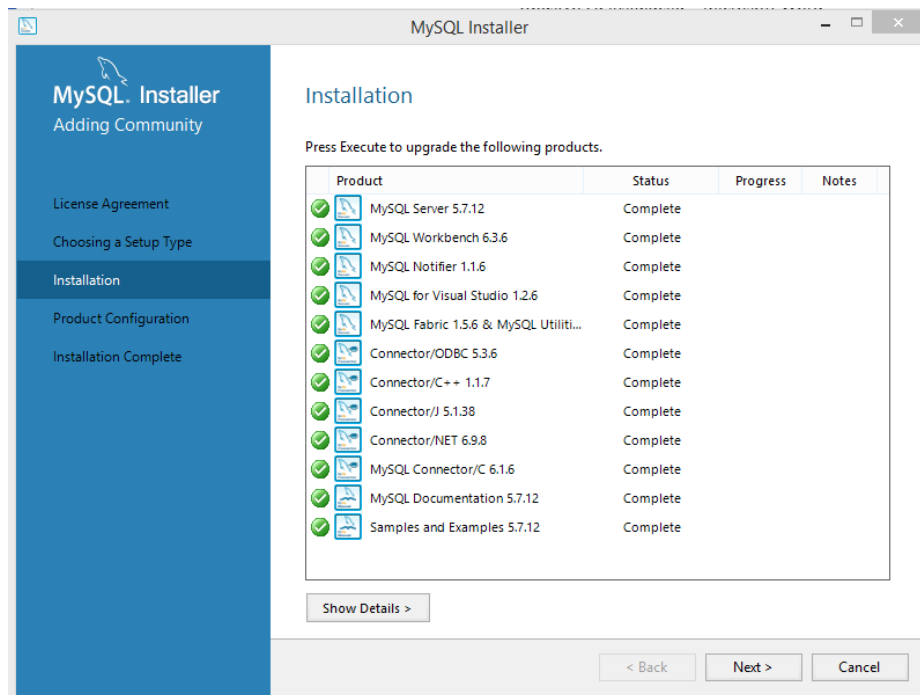
Preporučujemo da koristite .msi verziju. Ispod prozora za login kliknite na link "No thanks, just take me to download."



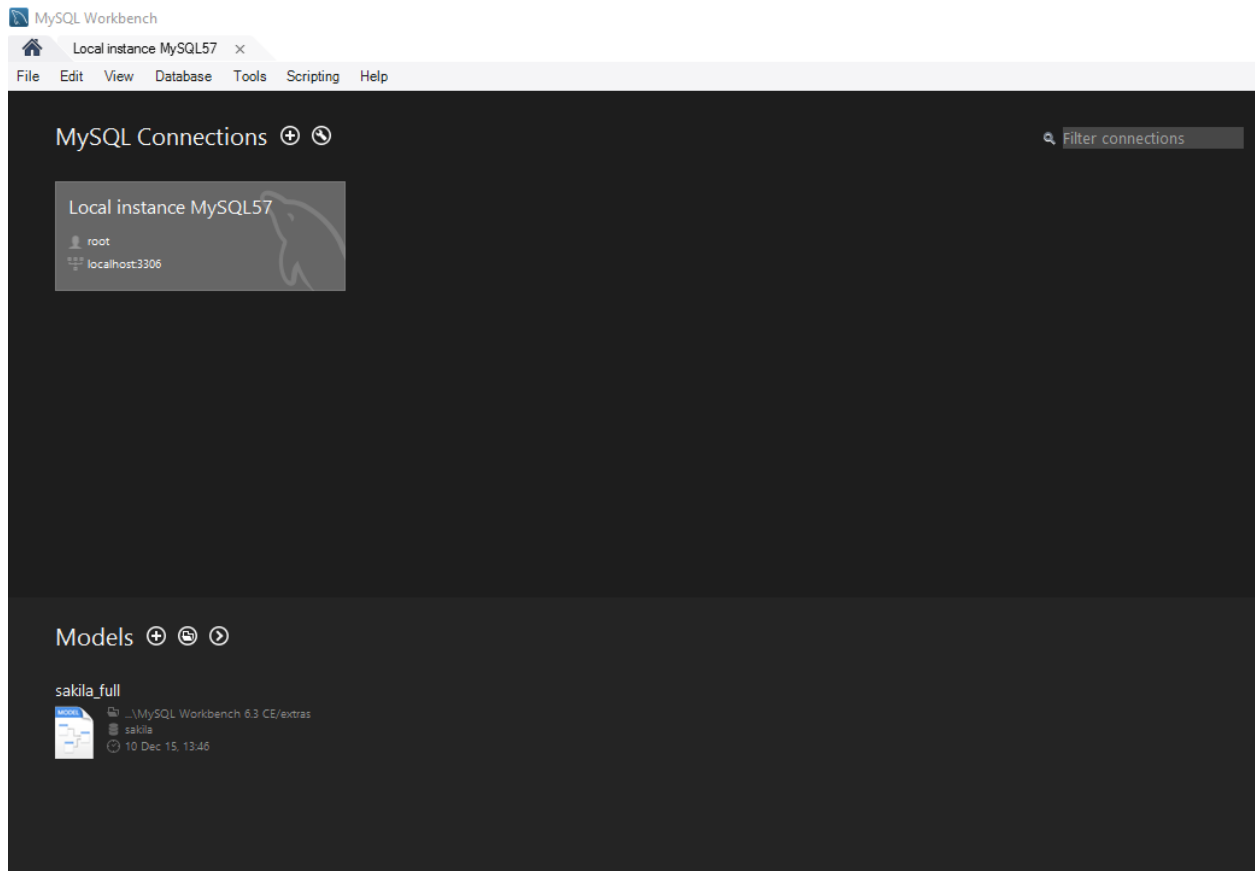
Kada pokrenete instalaciju, nakon uvodnih par ekrana izaberite tip instalacije Typical. Ostavite default ponuđeni spisak komponenti softvera i kliknite na Next kako bi započela prva faza instalacije. Nakon što malo sačekate, instalacija će se završiti i nastaviće konfiguracija MySQL servera.

> you with the following advantages.



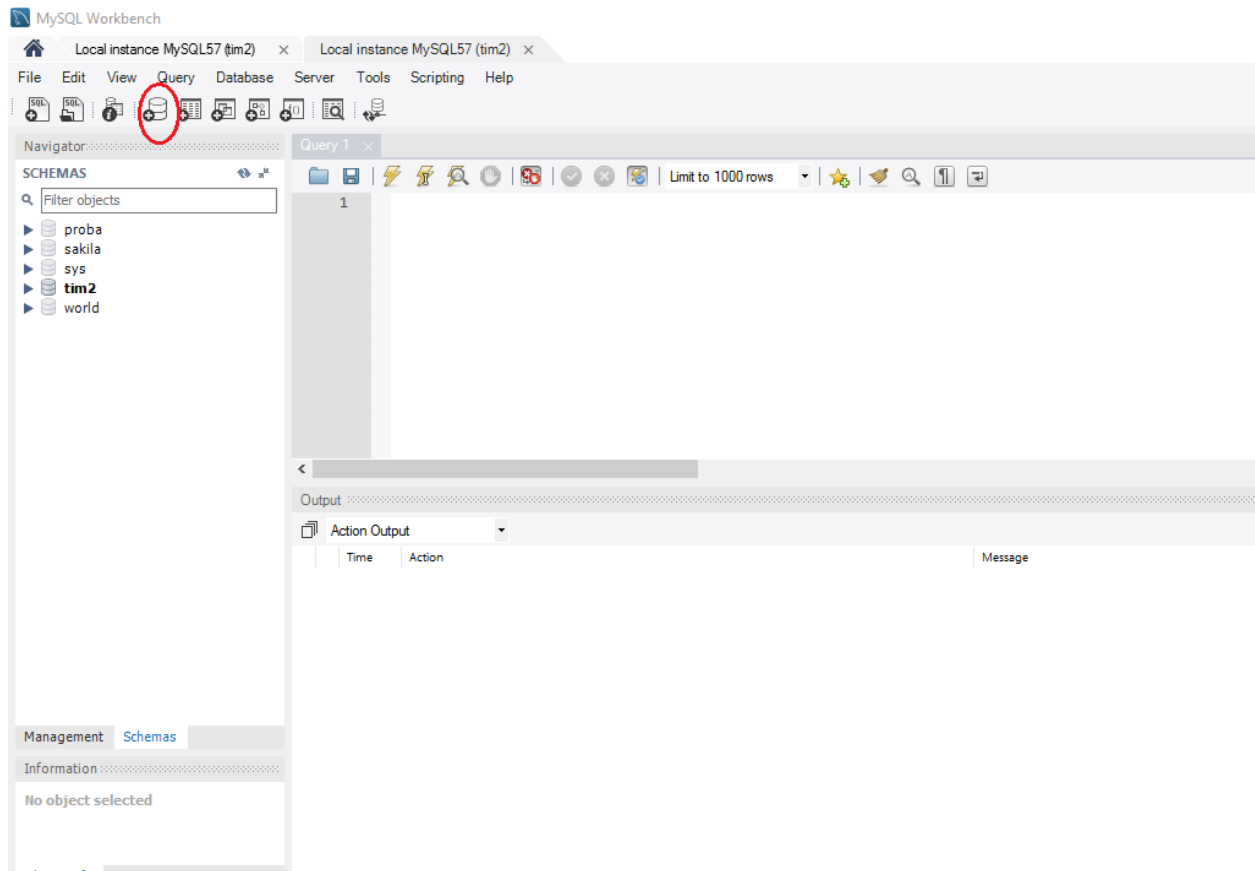


Kada pokrenete MySQL Workbench ugledaćete prozor

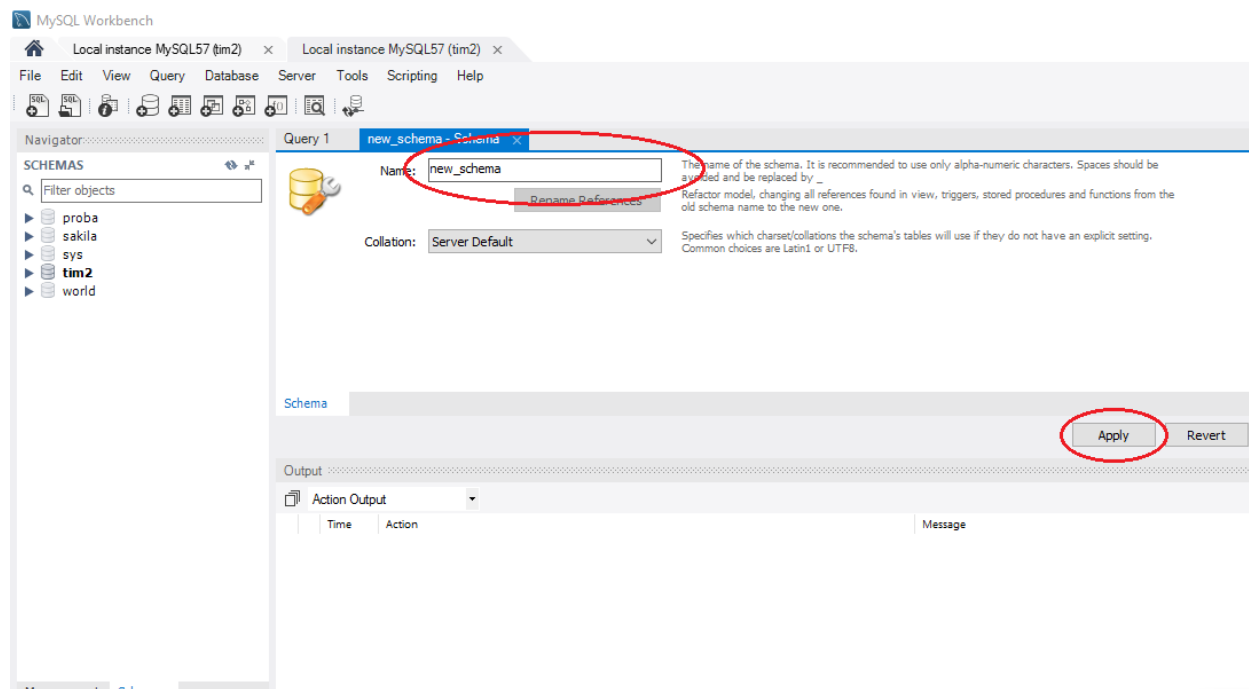


Izaberite Local instance of MySQL. Program će vas pitati da unesete root šifru koju ste definisali prilikom instalacije MySQLa. Možete izabrati opciju Store in vault kako vas Workbench više ne bi pitao za šifru.

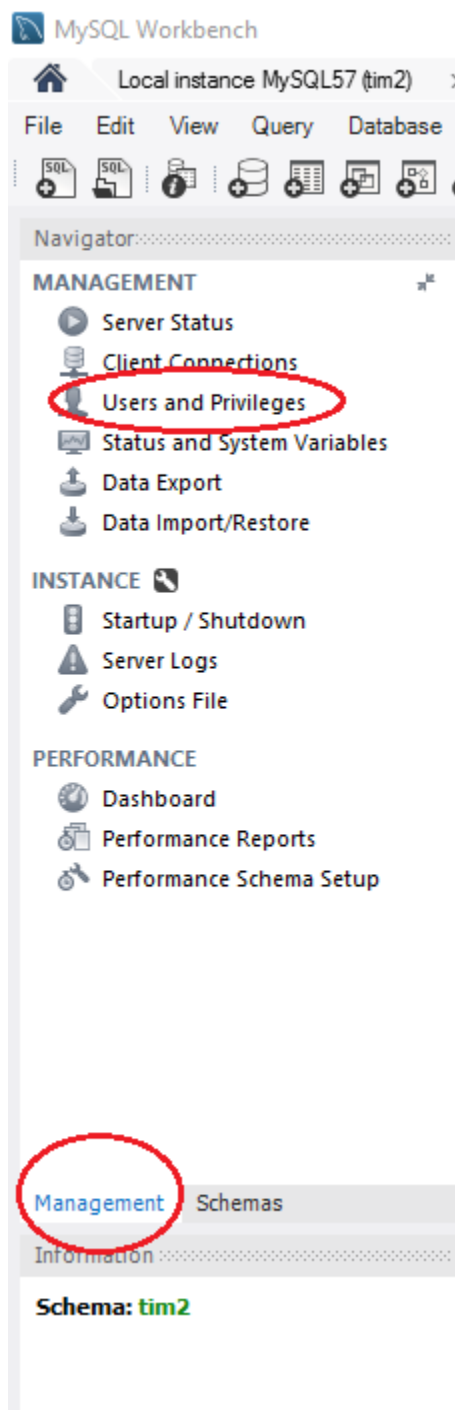
Otvoriće vam se novi prozor za izvršavanje SQL upita. Četvrta ikona slijeva u toolbaru je Create a new schema koja kreira novu šemu odnosno "bazu".



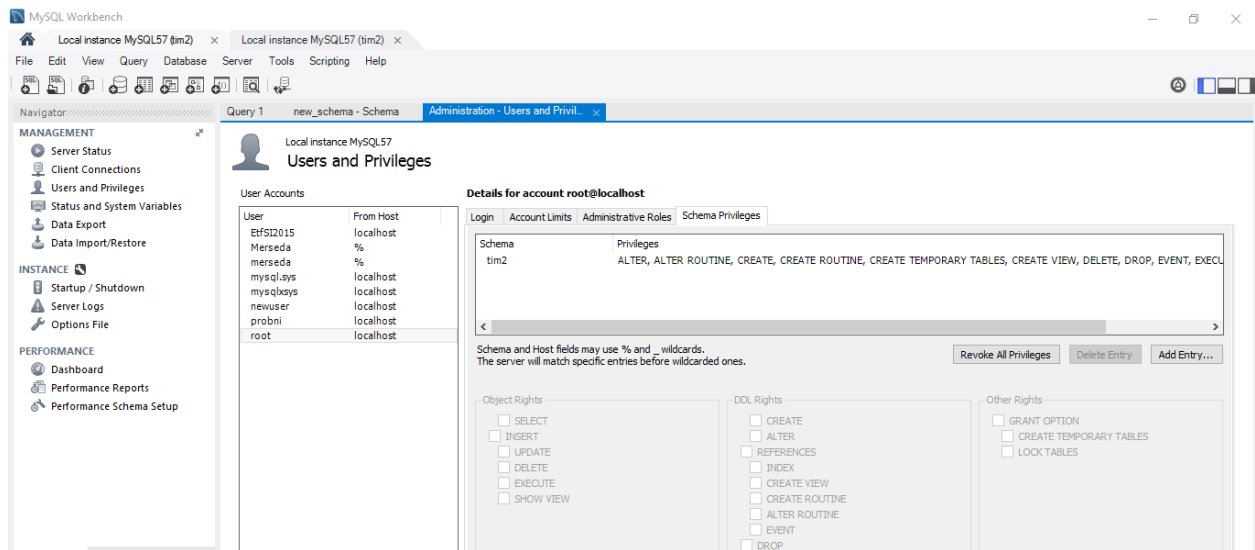
U označeno polje unijeti naziv šeme. U našem slučaju je naziv šeme : "tim2".



U meniju s lijeve strane kliknite na opciju Menagment, pa Users and Privileges.

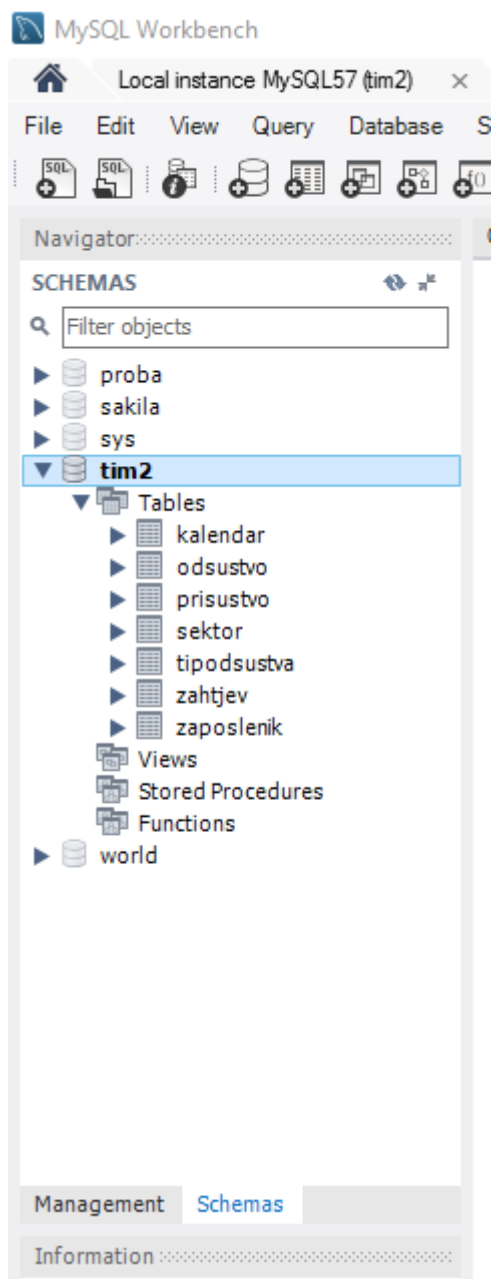


Sada kliknite na karticu Schema Privileges. Izaberite vašeg korisnika u meniju lijevo, a desno kliknite na dugme Add Entry... Izaberite opciju Selected Schema i na spisku šema izaberite šemu "tim2" koju ste kreirali ranije. Konačno, ne zaboravite kliknuti na dugme Select All u dnu ekrana. Na kraju kliknite na Save Changes dolje desno. Ovime ste kreirali korisnika koji ima sva prava na šemu "tim2" i nikakva prava na druge šeme, što je najčešća konfiguracija prava pristupa na bazu.



Tabele su ispravno kreirane što vidimo odemo li na šemu tim2





## Instalacija JDBC 5.1.38

Java DataBase Connectivity (JDBC) je dio Java SDK I da bi radili sa našom bazom podataka potrebno je downloadovati konektor.

## Begin Your Download - mysql-connector-java-5.1.38.tar.gz

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Nakon klika na Download, kliknite "No thanks, just start my download" i iz niza fajlova koje raspakujete biće Vam potreban samo fajl mysql-connector-java-...-bin.jar koji trebate smjestiti na pogodnu lokaciju. Da bismo dodali konektor u Eclipse, dodamo ga u Dependencies ukucavanjem mysql connector s obzirom da je riječ o Maven projektu.

Sada možemo u Eclipse-u kreirati novi projekat koji će koristiti Connector/J. Izaberite **File -> New -> Java Project**, podesite ime projekta PristupBazi i kliknite na dugme **Next** (a ne **Finish**!). Na sljedećem ekranu ćete vidjeti četiri kartice, treća po redu kartica zove se **Libraries**. Kliknite na nju, a zatim sa desne strane izaberite **Add External JARs**. Tu nađite ranije skinuti .jar fajl i izaberite. Sada možete kliknuti na **Finish** i vaš projekat je spreman za korištenje MySQL konektora.

## Instalacija Maven 3.3.9

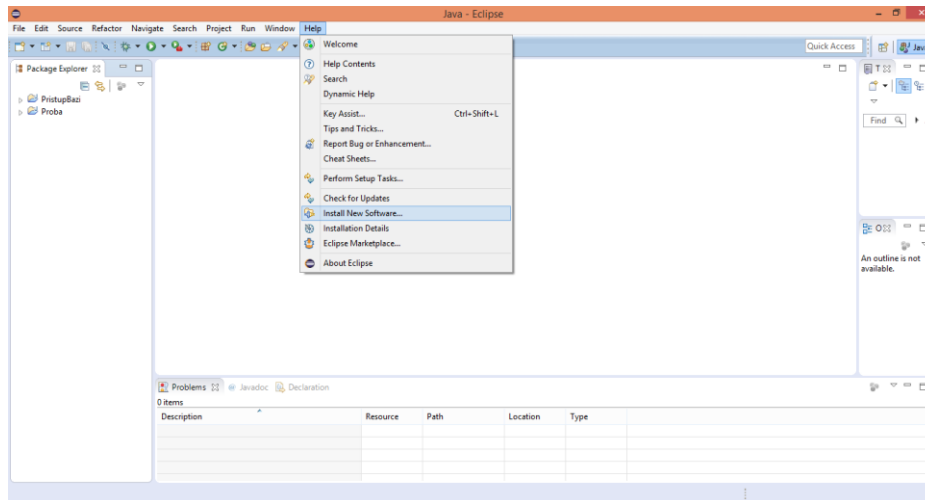
Maven je alat komande linije koji je baziran na Javi i zahtjeva da je Java JDK instaliran na računaru. Zadnju verziju Maven-a (trenutno 3.3.9) možete skinuti sa: <http://maven.apache.org/download.cgi> Skinutu arhivu raspakujte na željenu lokaciju, npr: na C:\. Prije nego što pokrenemo Maven, moramo definisati JAVA\_HOME sistemsku varijablu na lokaciju gdje nam je instaliran JDK. Za Windows je to u Control Panel > System > Advanced System Settings > Advanced > Environment Variables. U dijelu System Variables kliknemo na New... U polje Variable Name stavljamo JAVA\_HOME, a u Variable Value npr. C:\Program Files\Java\jdk1.7.0\_51, odnosno lokaciju gdje je instaliran Java JDK.

## Maven i Eclipse

Eclipse sadrži plugin koji se zove m2eclipse, koji Vam omogućava da kreirate novi Maven projekat ili da importujete postojeći u Eclipse razvojno okruženje. Pomoću njega importovat ćemo i naš projekat

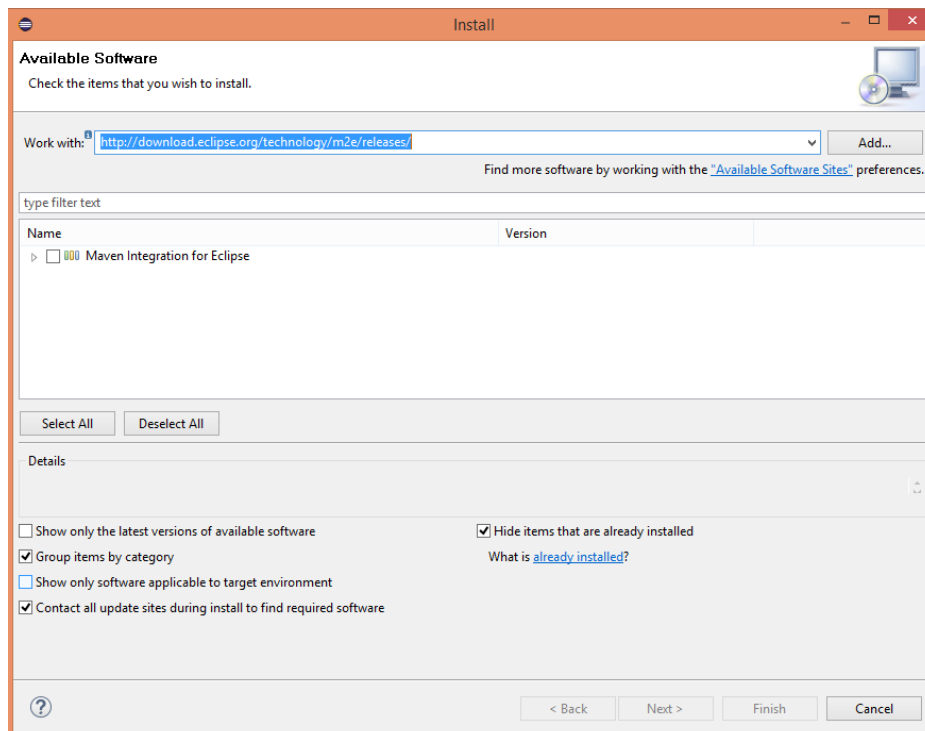
direktno u Eclipse. Eclipse for Java Developer i for Java EE developers već sadrže ovaj plugin. Za instalaciju uredite sljedeće:

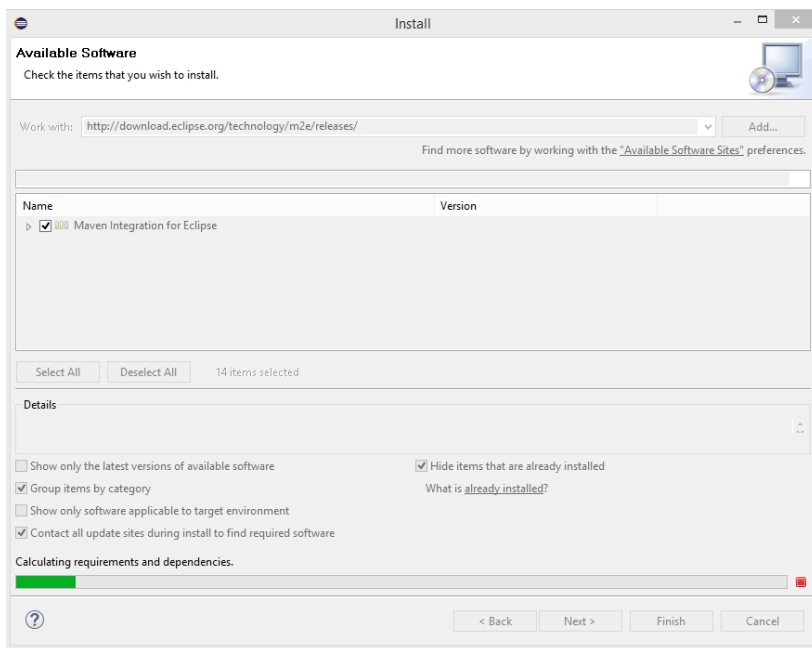
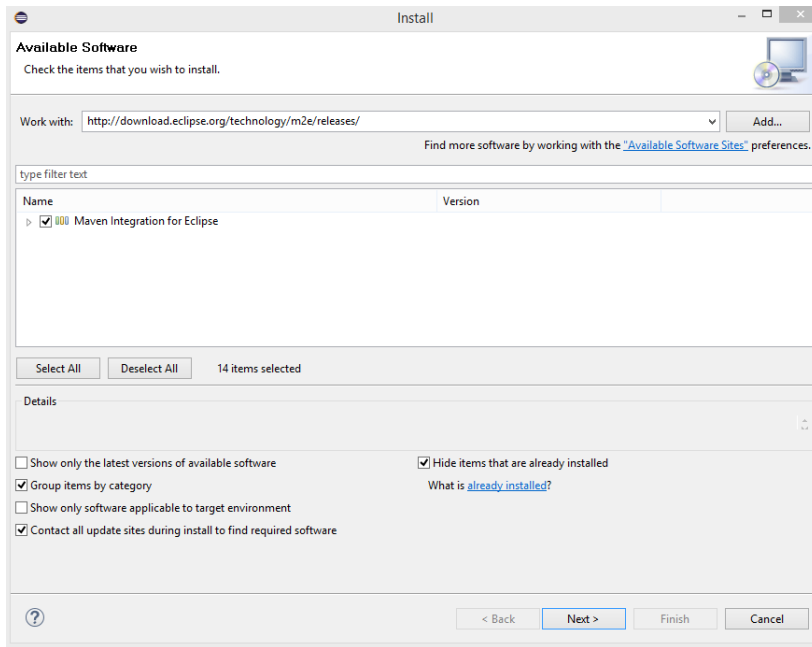
U Vašem Eclipse okruženju idite na opciju **Help -> Install New Software**



U polje Work with stavite: <http://download.eclipse.org/technology/m2e/releases>

Izaberite Maven integration for Eclipse pa **Next ->Next ->Accept**



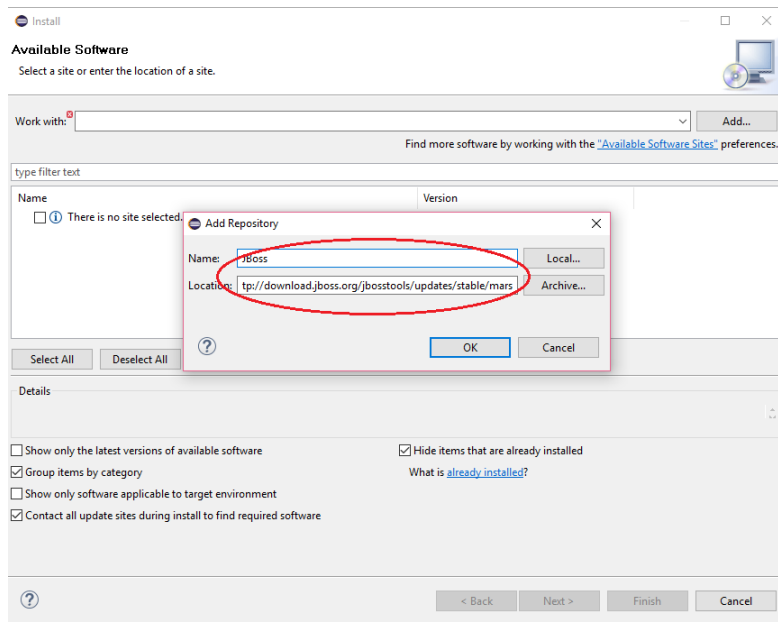


## Instalacija Hibernate Tools

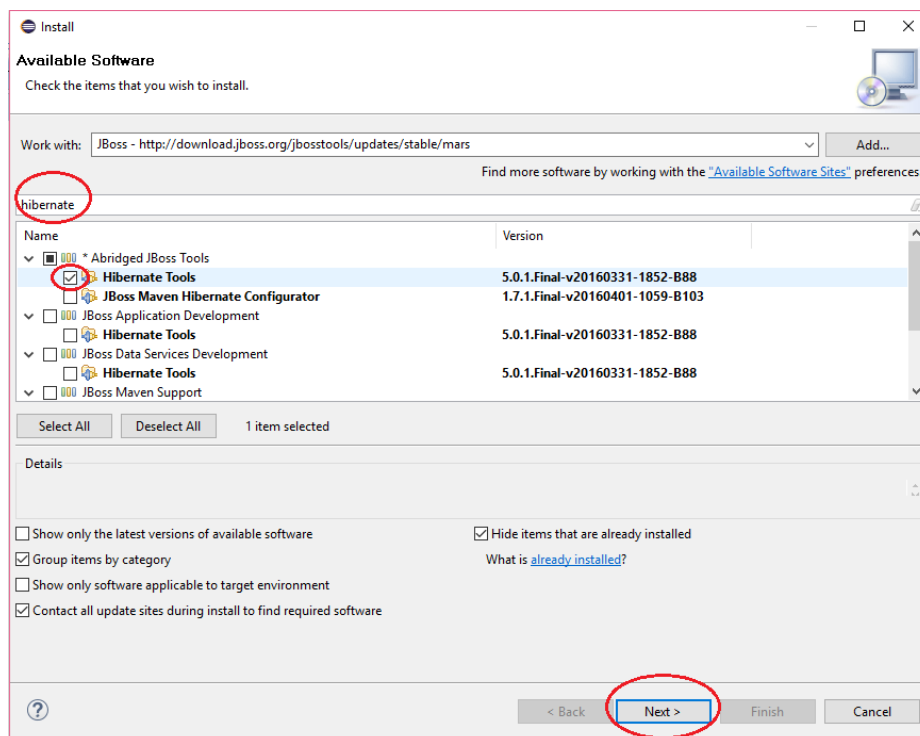
Hibernate Tools je plugin za Eclipse koji dodaje nekoliko vrlo korisnih wizard-a za kreiranje potrebnih XML konfiguracijskih fajlova. Naravno, ti fajlovi se uvijek mogu kreirati i ručno. Da biste na vlastitom računaru dodali Hibernate Tools u Eclipse ići ćemo na Help -> Install New Software, zatim kliknite na dugme Add i kucajte:

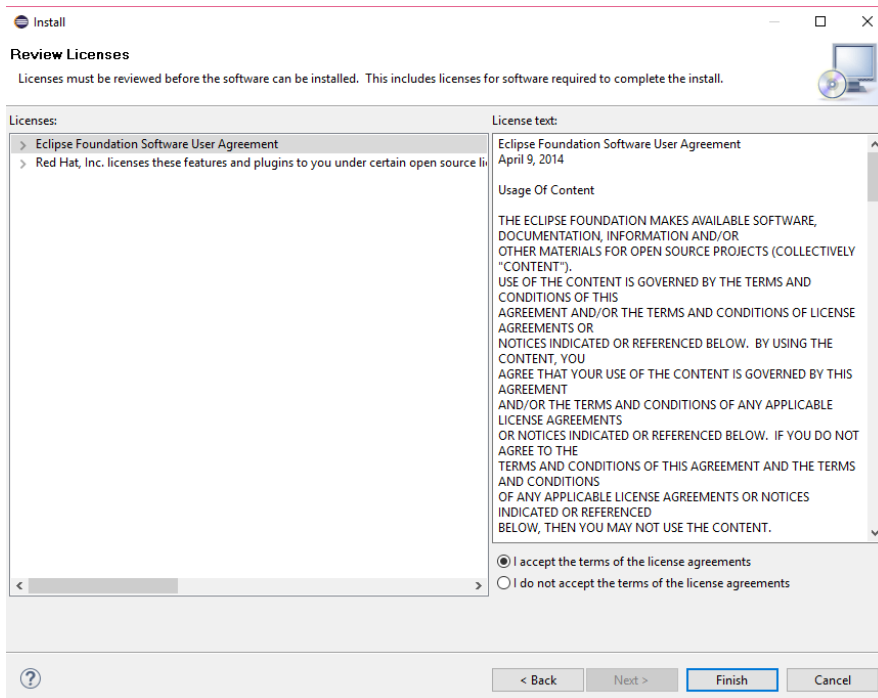
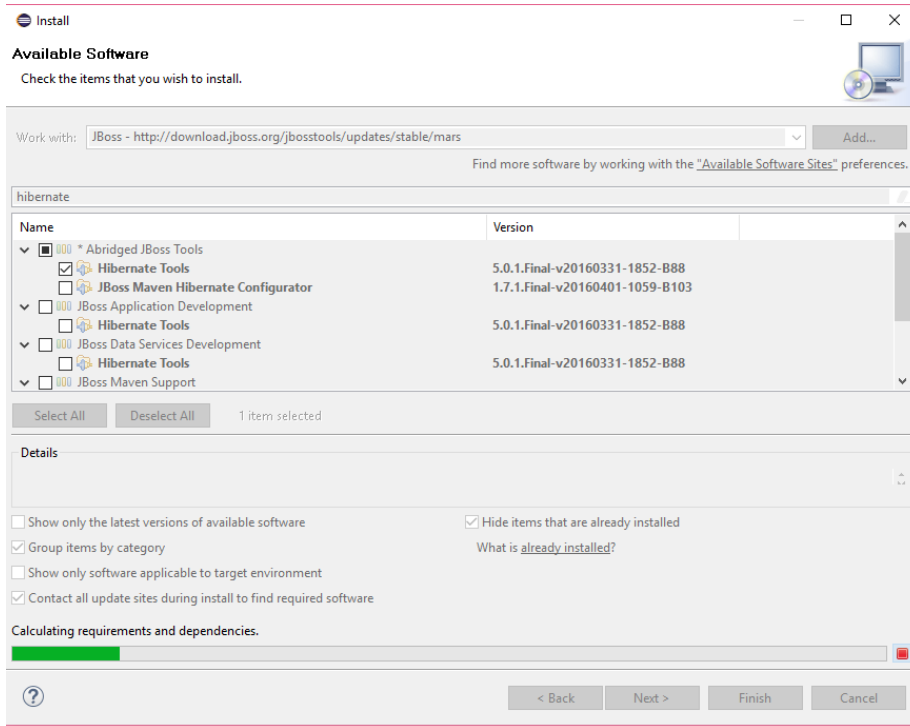
Name: JBoss

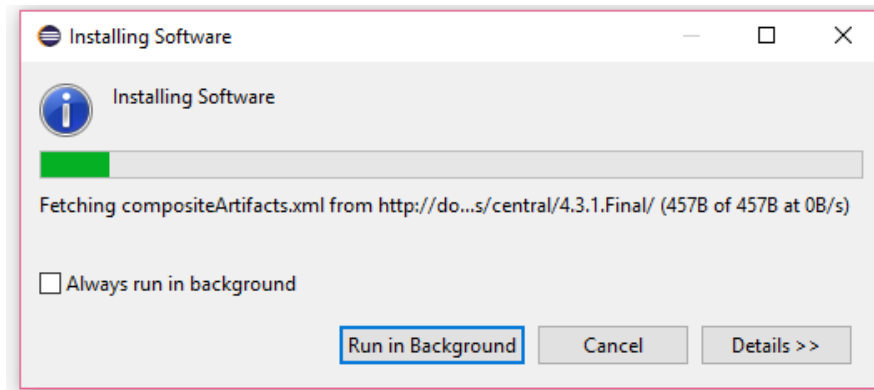
URL: <http://download.jboss.org/jbosstools/updates/stable/mars>



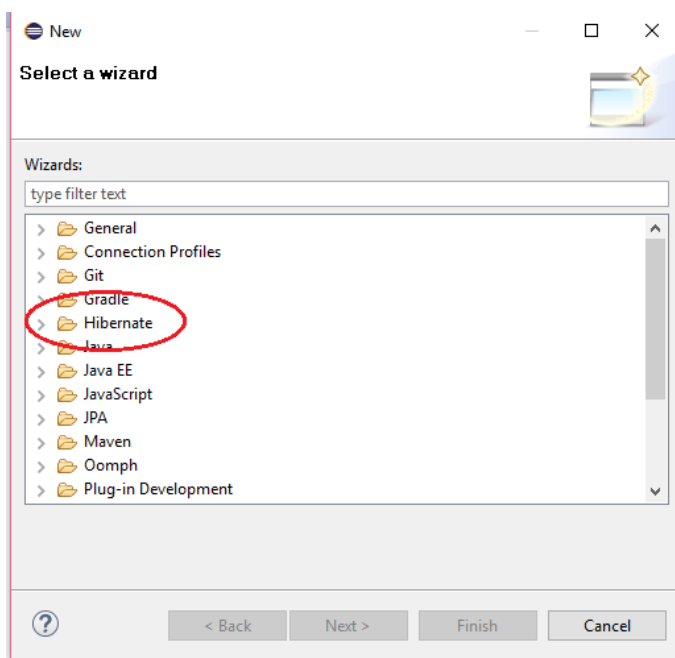
U polju “Work with” odaberite upisani link, te u polje za pretragu upišite **hibernate**, od ponuđenog odaberite “**Hibernate Tools**” I kliknite Next.





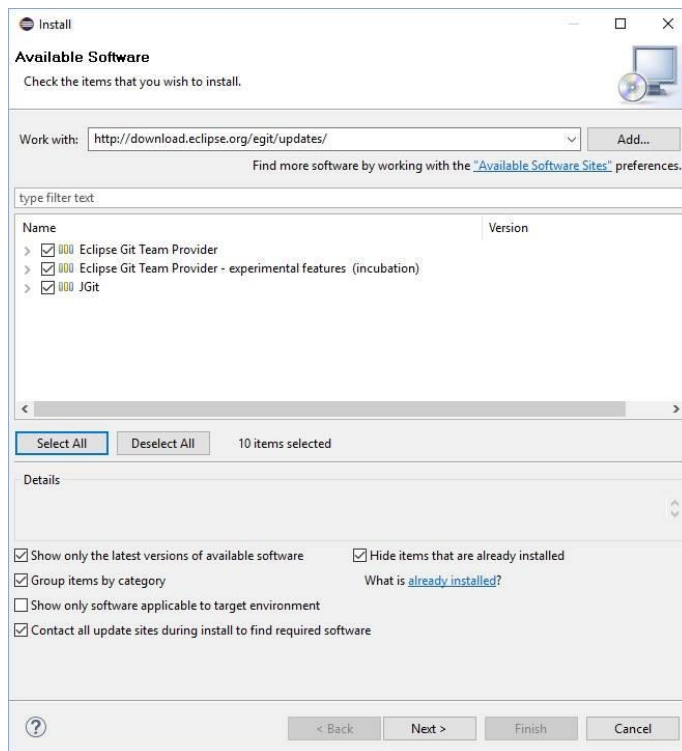


Ukoliko kada idete na **File->New->Other** imate i folder **Hibernate**, sve je uredu.



## Eclipse i Github (Egit)

Da biste koristili Github i Eclipse sinhronizovano potrebno je da instalirate Egit plugin za povezivanje projekta na Githubu i Eclipse razvojnog okruženja. Za instalaciju idete **na Help -> Install New Software** u Eclipse razvojnom okruženju. U dijelu Work with upišete <http://download.eclipse.org/egit/updates>.



Povezivanje na postojeći projekat na GitHubu Da biste radili na projektu koji je postavljen od strane nekog drugog na Github i da biste radili Commit, kada uđete u Eclipse razvojno okruženje idete na **File -> Import ->Git -> Projects from Git**.

Kliknite na **Next**, a potom odaberite **Clone URL**. U URL unesite link koji kopirate s Github stranice, nakon toga importujete postojeći projekat s lokalne kopije repozitorija.