



COMO HACER UN DIAGRAMA ENTIDAD RELACIÓN (D.E.R) CON WORKBENCH

Como hacer un Diagrama Entidad Relación(D.E.R) con Workbench empleando una base de datos EXISTENTE

Realizaremos un diagrama entidad relación con la siguiente base de datos: **gestionacademica**.

HERRAMIENTAS USADAS: MYSQL Y WORKBENCH

Representación visual de las tablas:

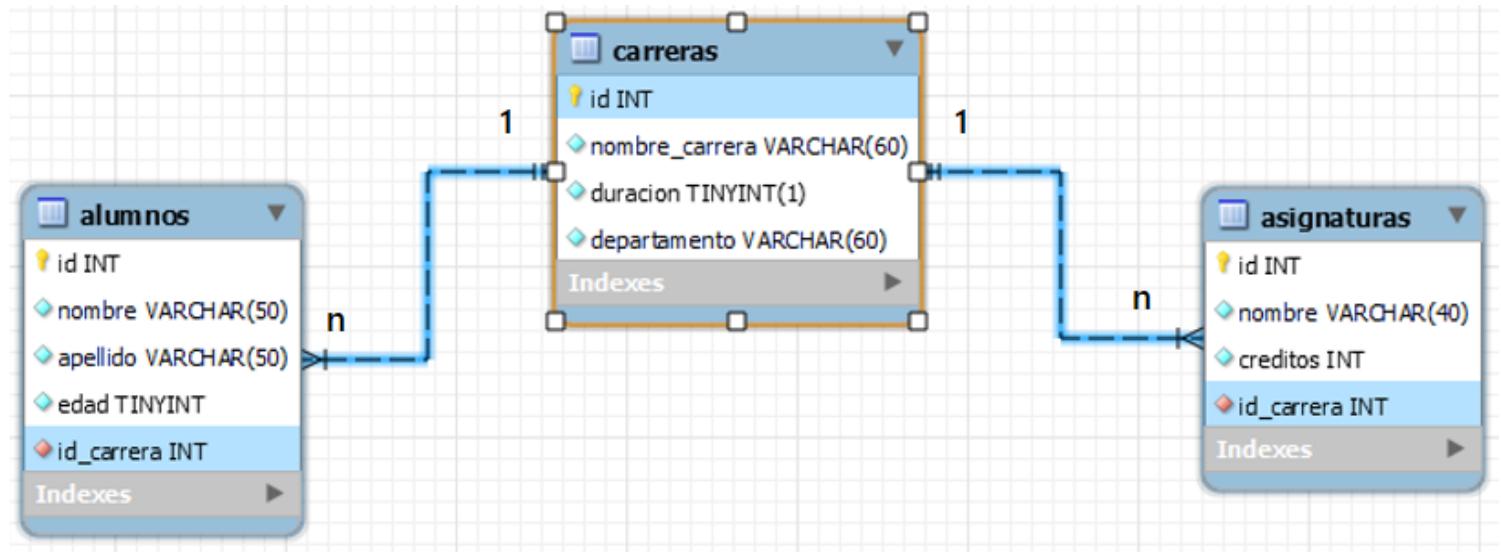


Table: alumnos

Columns:

id	int PK
nombre	varchar(50)
apellido	varchar(50)
edad	tinyint
id_carrera	int

Table: carreras

Columns:

id	int PK
nombre_carrera	varchar(60)
duracion	tinyint(1)
departamento	varchar(60)

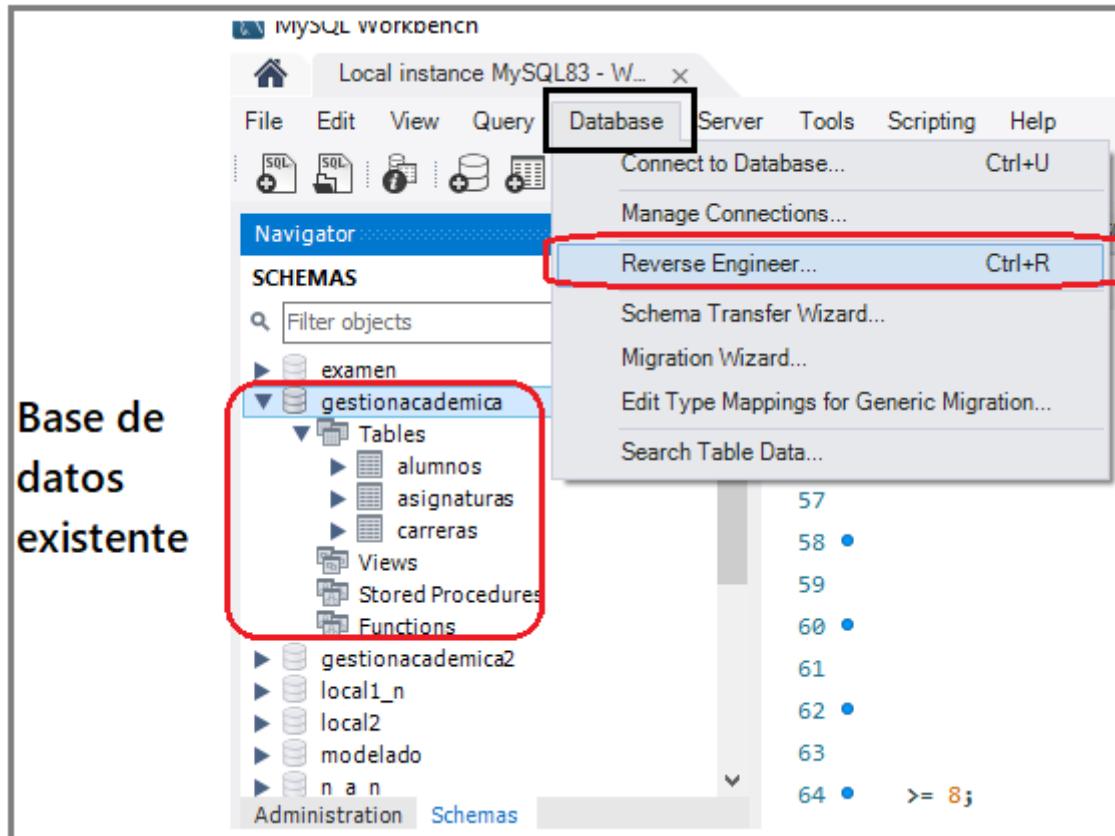
Table: asignaturas

Columns:

id	int PK
nombre	varchar(40)
creditos	int
id_carrera	int

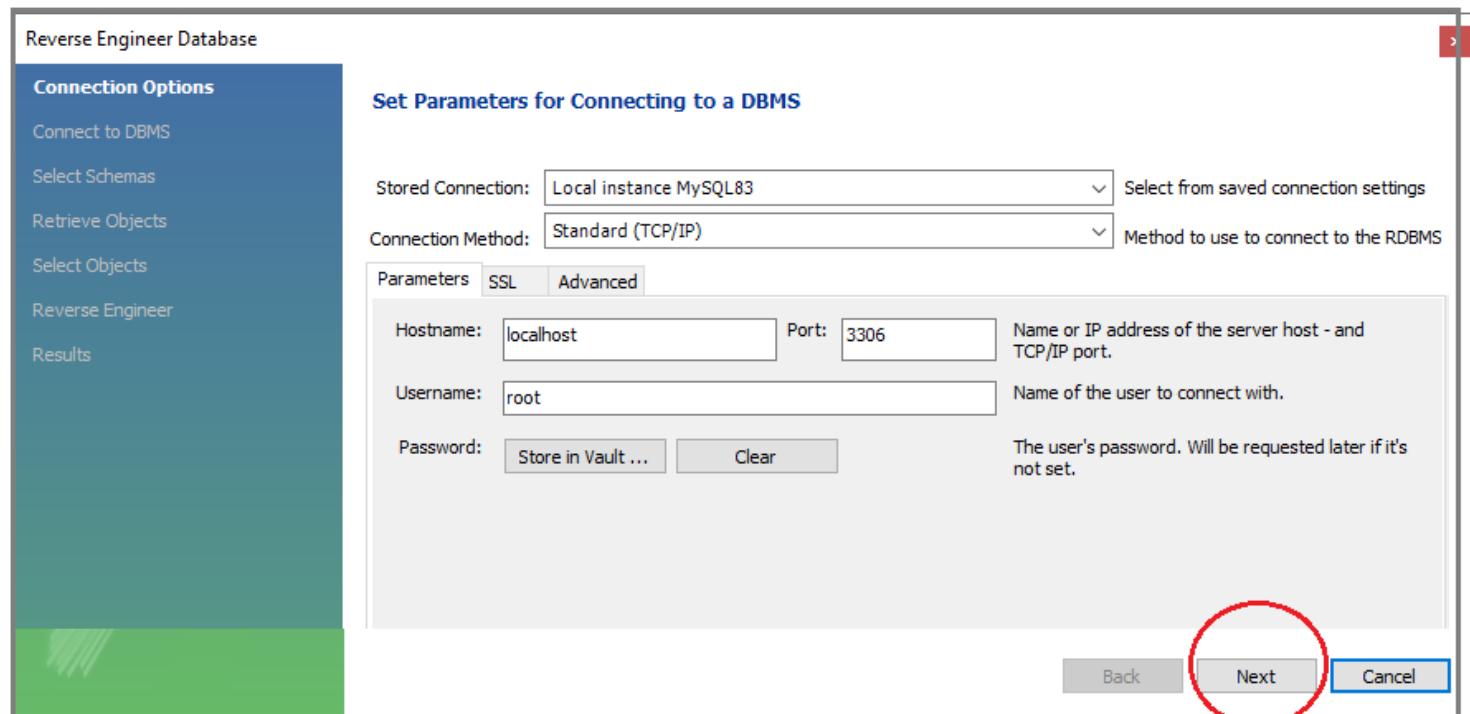
Pasos:

1-Me dirigo a Database->Reverse Enginner (*Ingeniería Inversa*)

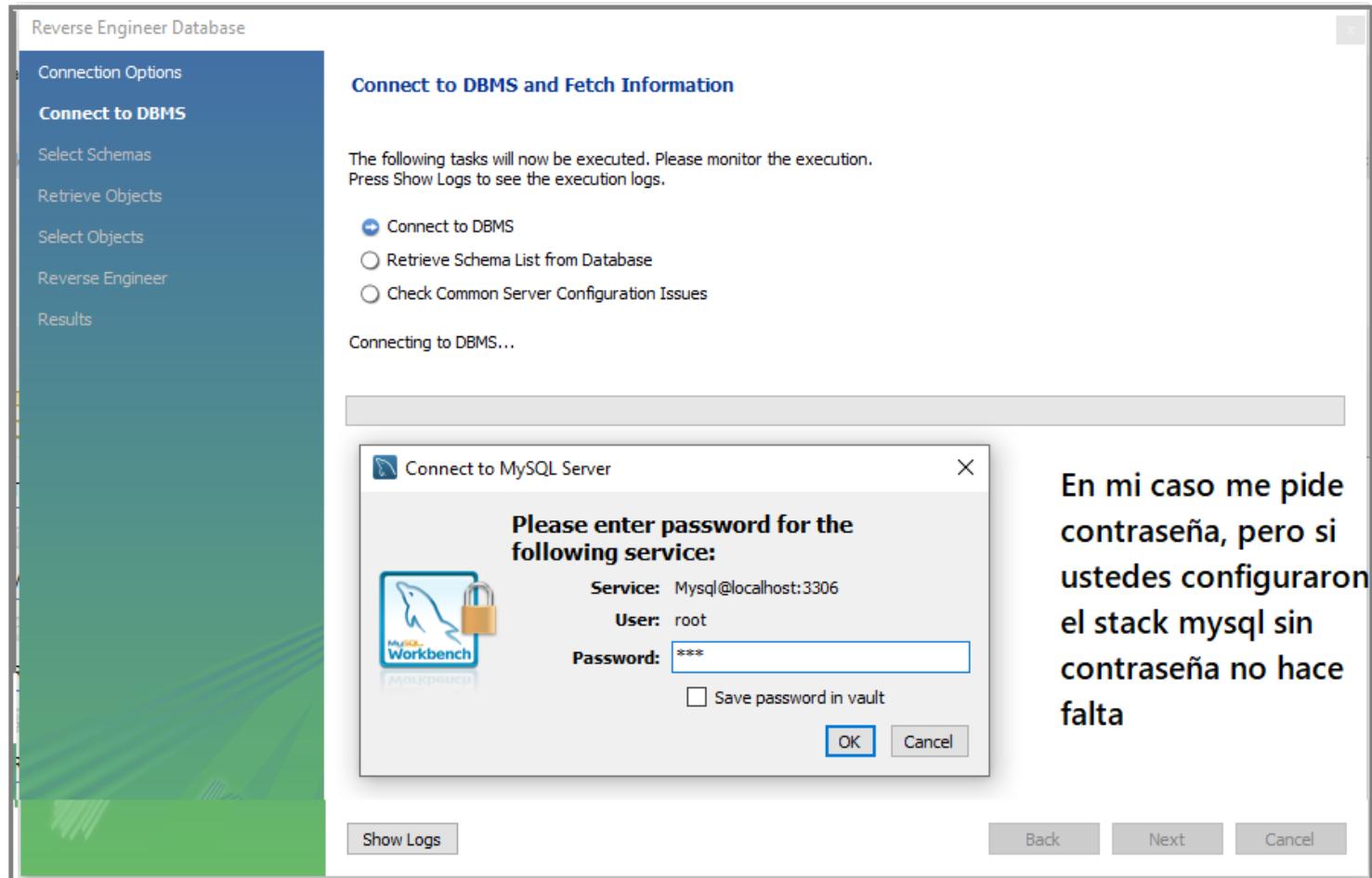


Base de
datos
existente

2-Se desplegará la siguiente ventana, le damos a next.



3-Me solicitará una contraseña o no según como tengas configurado el stack mysql + workbench.



4-Estan todos los parámetros correctos, le damos a next

Reverse Engineer Database

Connection Options

Connect to DBMS

Select Schemas

Retrieve Objects

Select Objects

Reverse Engineer

Results

Connect to DBMS and Fetch Information

The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.

Connect to DBMS
 Retrieve Schema List from Database
 Check Common Server Configuration Issues

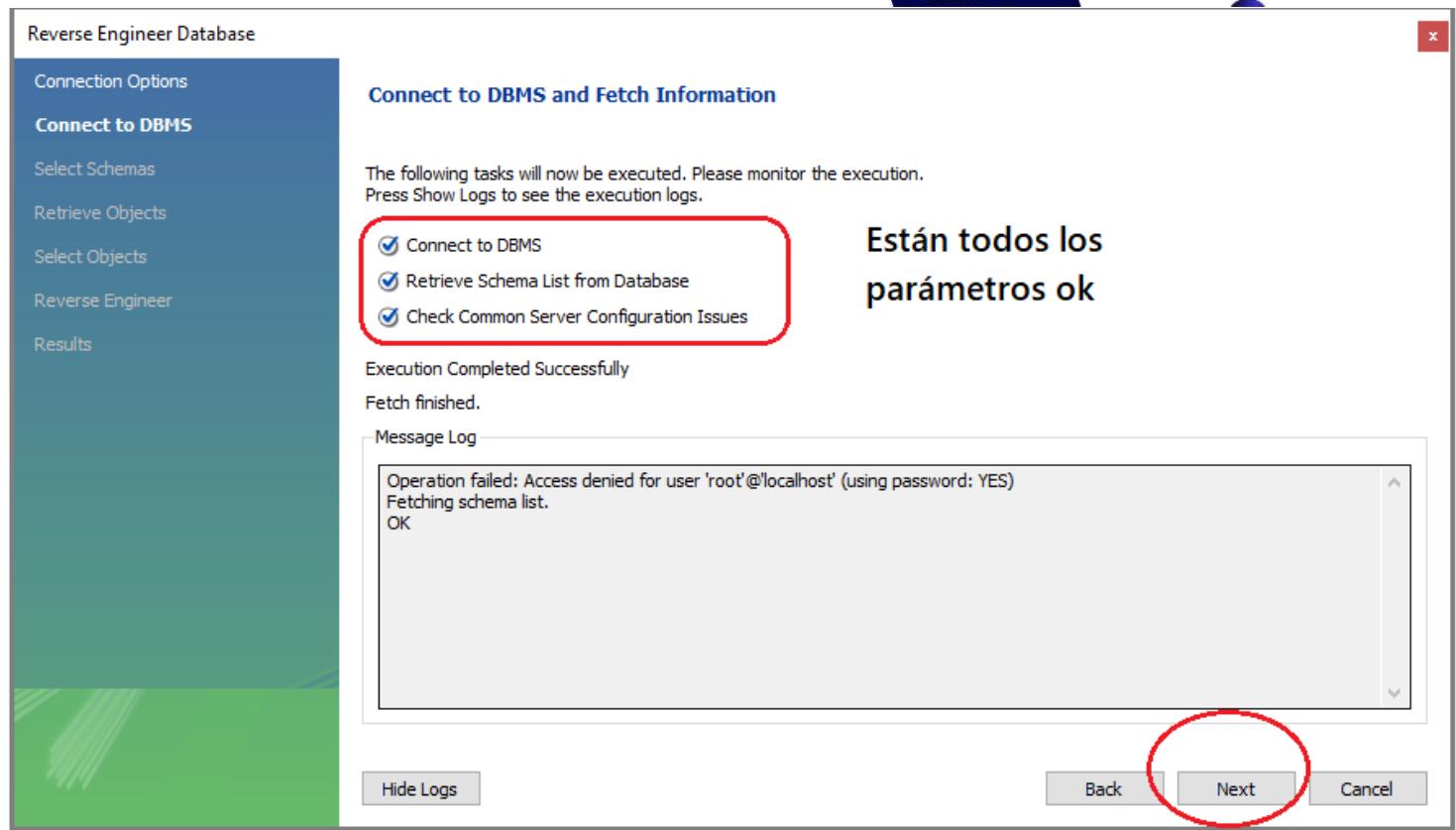
Execution Completed Successfully
Fetch finished.

Message Log

```
Operation failed: Access denied for user 'root'@'localhost' (using password: YES)
Fetching schema list.
OK
```

Hide Logs Back Next (circled) Cancel

Están todos los parámetros ok



5-Seleccionamos la base de datos que vamos a realizar el D.E.R

Reverse Engineer Database

Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results

Select Schemas to Reverse Engineer

Select the schemas you want to include:

- bodega
- bodega2
- ciencia_datos
- dbuno_muchos
- ejemplo
 - ejemplo2
 - ejercicio
 - examen
- gestionacademica
- tienda2
- tienda2024
- tiendita
- uno
- uno_uno

...



6-Nos dice que va a importar todos los objetos que tiene nuestra base de datos, osea 3 tablas. Le damos click a ejecutar.

Reverse Engineer Database

Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results

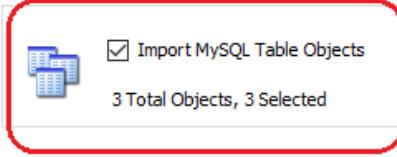
Select Objects to Reverse Engineer

Import MySQL Table Objects

3 Total Objects, 3 Selected

Place imported objects on a diagram

Nos dice que va a importar 3 objetos,
o sea 3 tablas



7-Operación completada satisfactoriamente, le damos a next para visualizar nuestro D.E.R

Reverse Engineer Database x

Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results

Reverse Engineering Progress

The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.

Reverse Engineer Selected Objects
 Place Objects on Diagram

Operation Completed Successfully

[Show Logs](#) [Next](#) [Cancel](#)

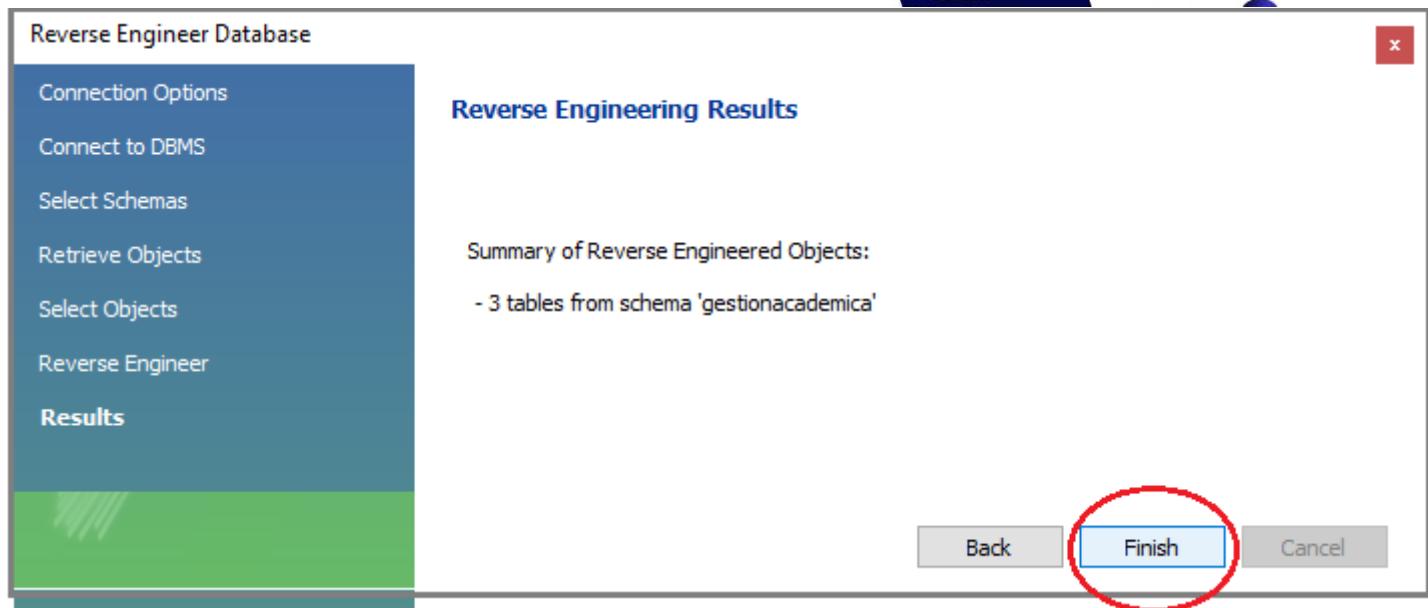
Reverse Engineer Database x

Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results

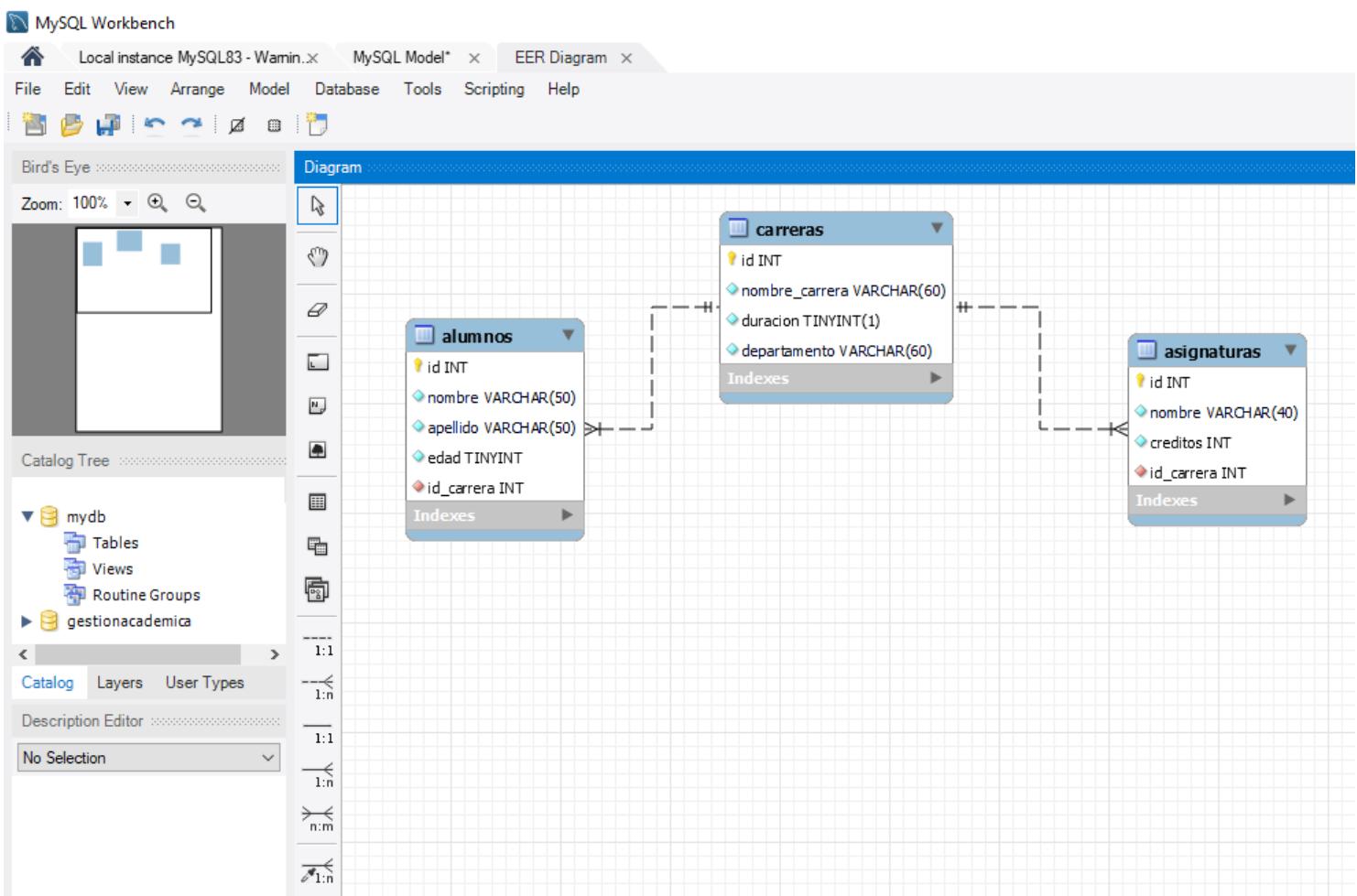
Reverse Engineering Results

Summary of Reverse Engineered Objects:
- 3 tables from schema 'gestionacademica'

[Back](#) [Finish](#) [Cancel](#)

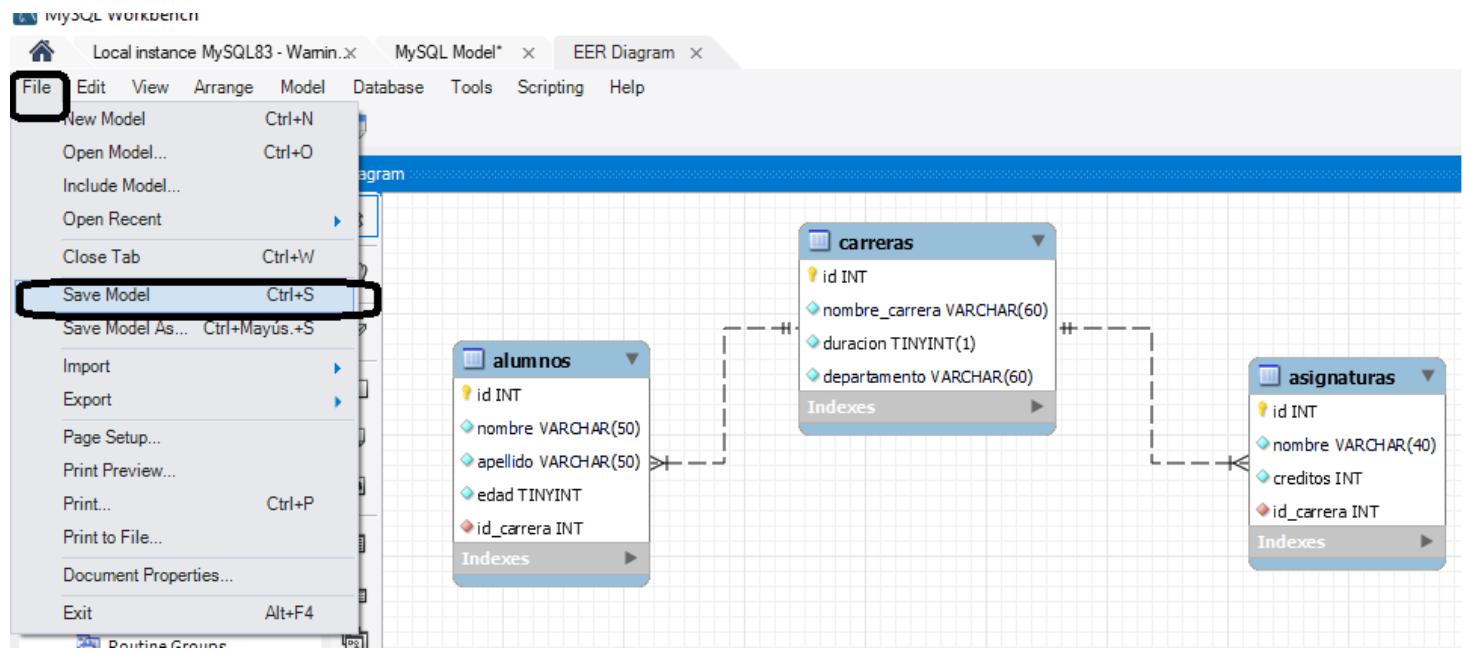


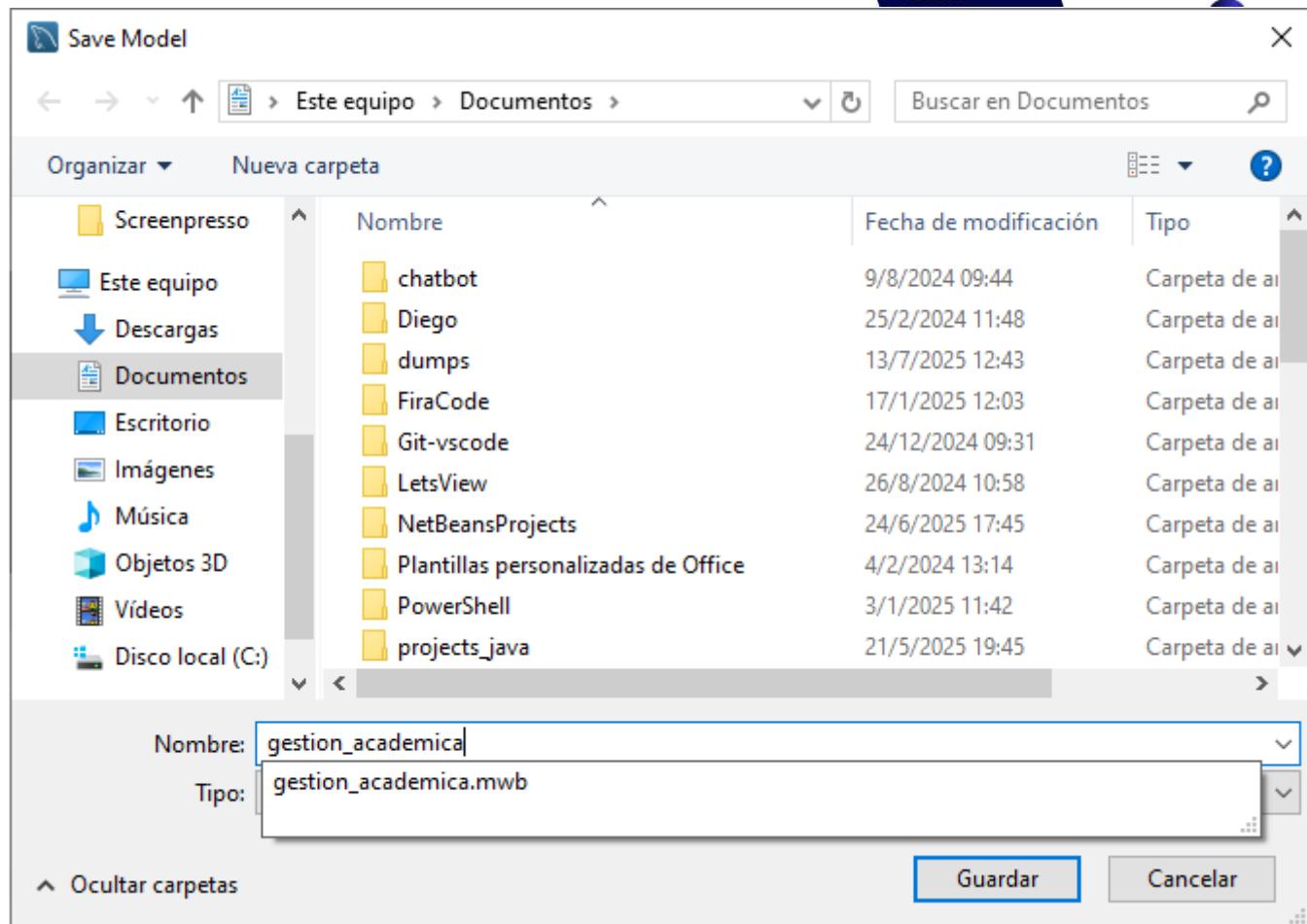
8-Proceso Finalizado. DER realizado exitosamente



Como recomendación podemos guardar el DER de la siguiente forma

File -> Save model





Guardamos en un archivo con extensión. mwb