

JAVA WITH JDBC COURSE

BASIC MYSQL HANDLING



By the expert: Ubaldo Acosta

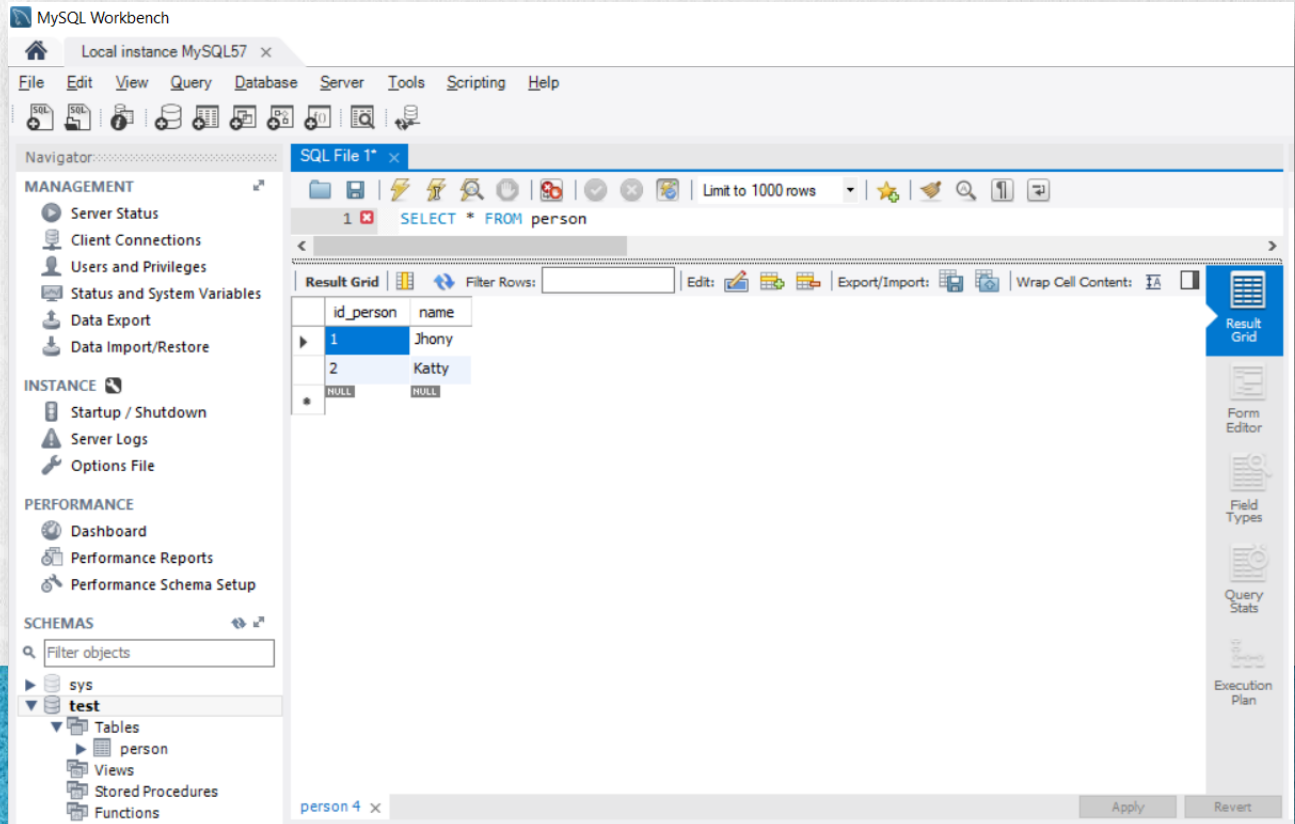


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EXERCISE OBJECTIVE

Create a new database in MySql. At the end we should observe the following:

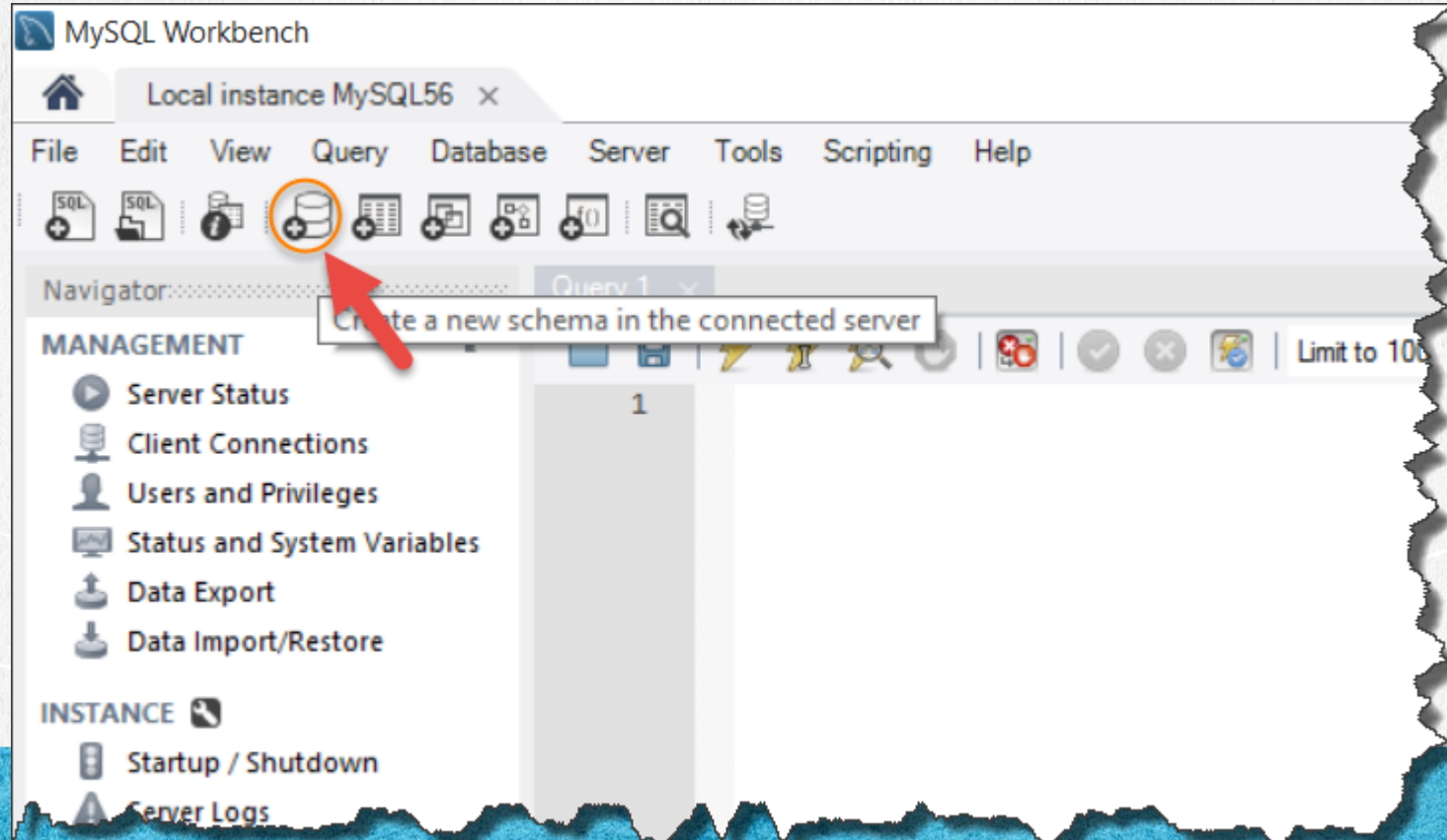


The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows a tree view with 'sys' and 'test' databases. The 'test' database is expanded, showing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'person' table is selected under 'Tables'. The main workspace shows a query editor with the SQL statement: `SELECT * FROM person`. Below the query editor, the 'Result Grid' displays the query results in a table format. The table has two columns: 'id_person' and 'name'. The results are as follows:

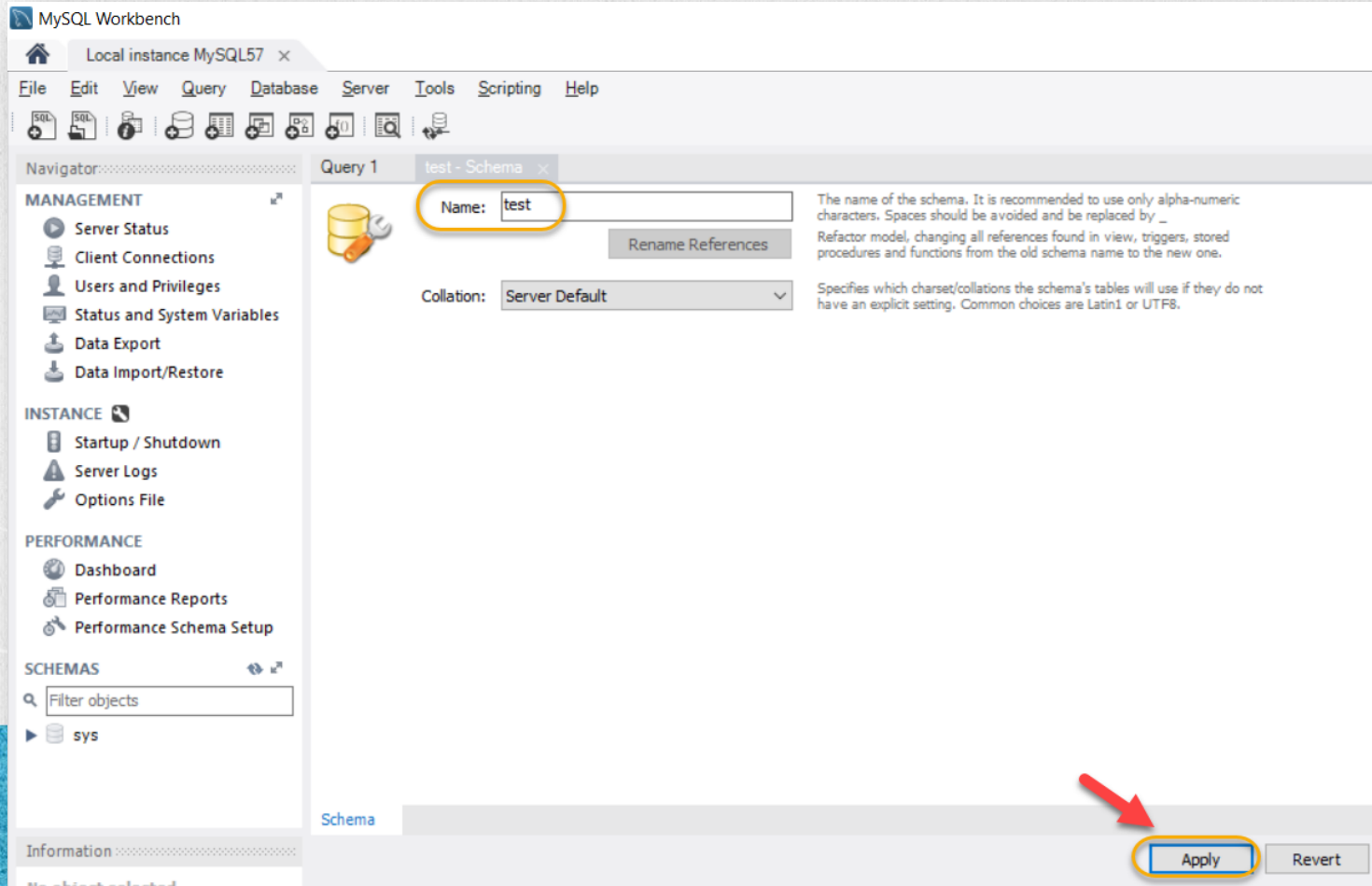
id_person	name
1	Jhony
2	Katty
NULL	NULL

The interface also includes a 'Navigator' pane on the left with sections for 'MANAGEMENT' (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), 'INSTANCE' (Startup / Shutdown, Server Logs, Options File), 'PERFORMANCE' (Dashboard, Performance Reports, Performance Schema Setup), and 'SCHEMAS'. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The bottom status bar shows 'person 4 x' and buttons for 'Apply' and 'Revert'.

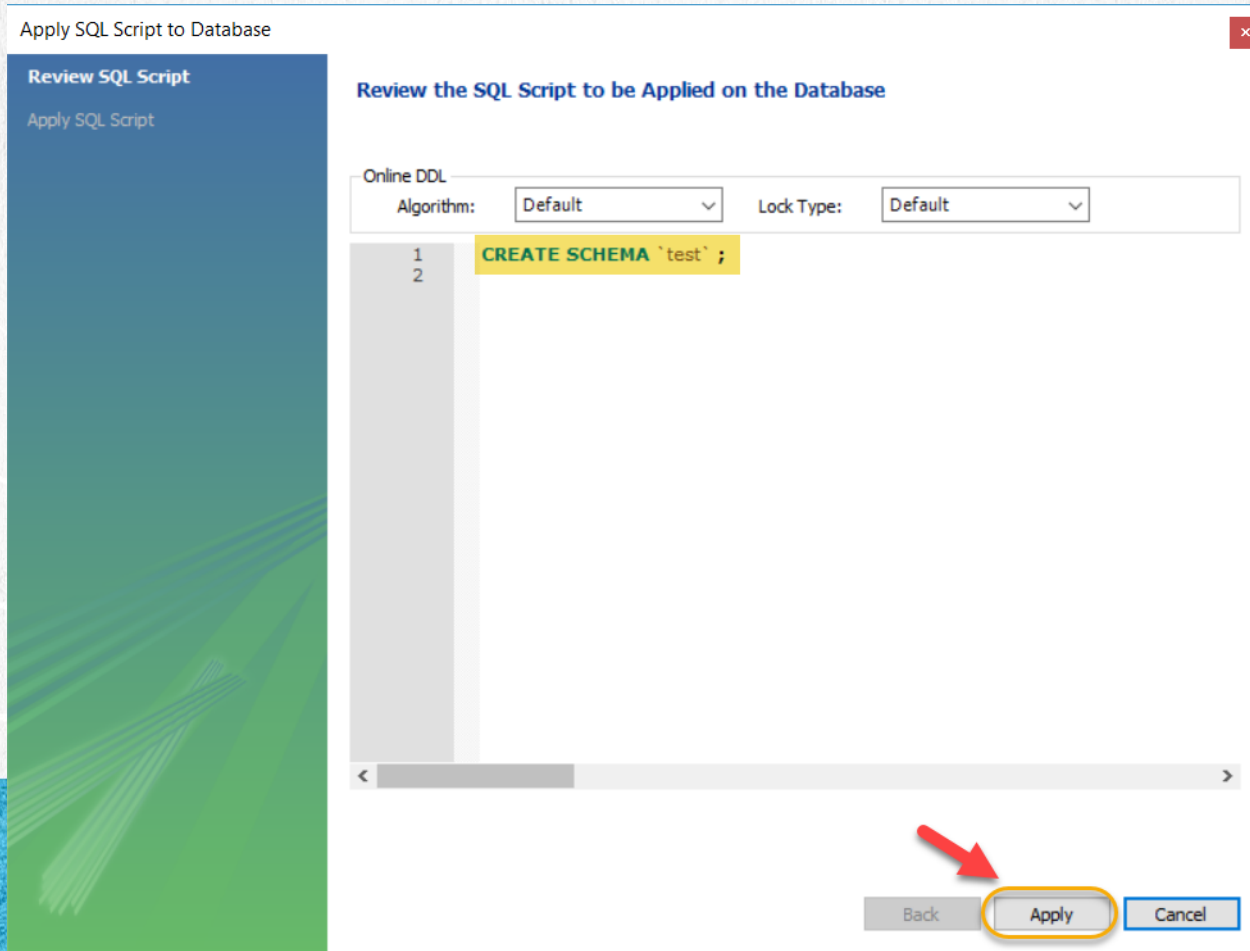
1. CREATE A NEW DATABASE (SCHEMA) IN MYSQL



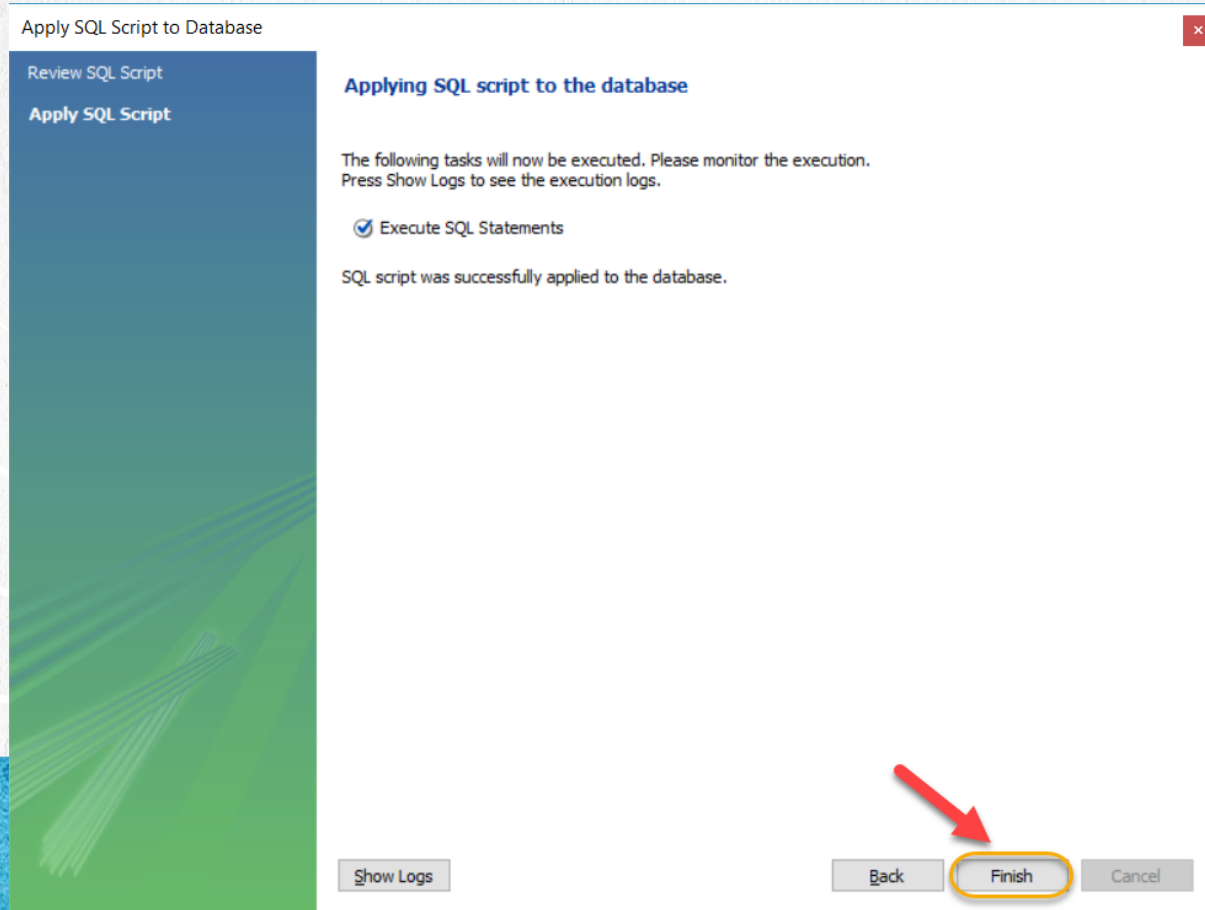
1. CREATE A NEW DATABASE (SCHEMA) IN MYSQL



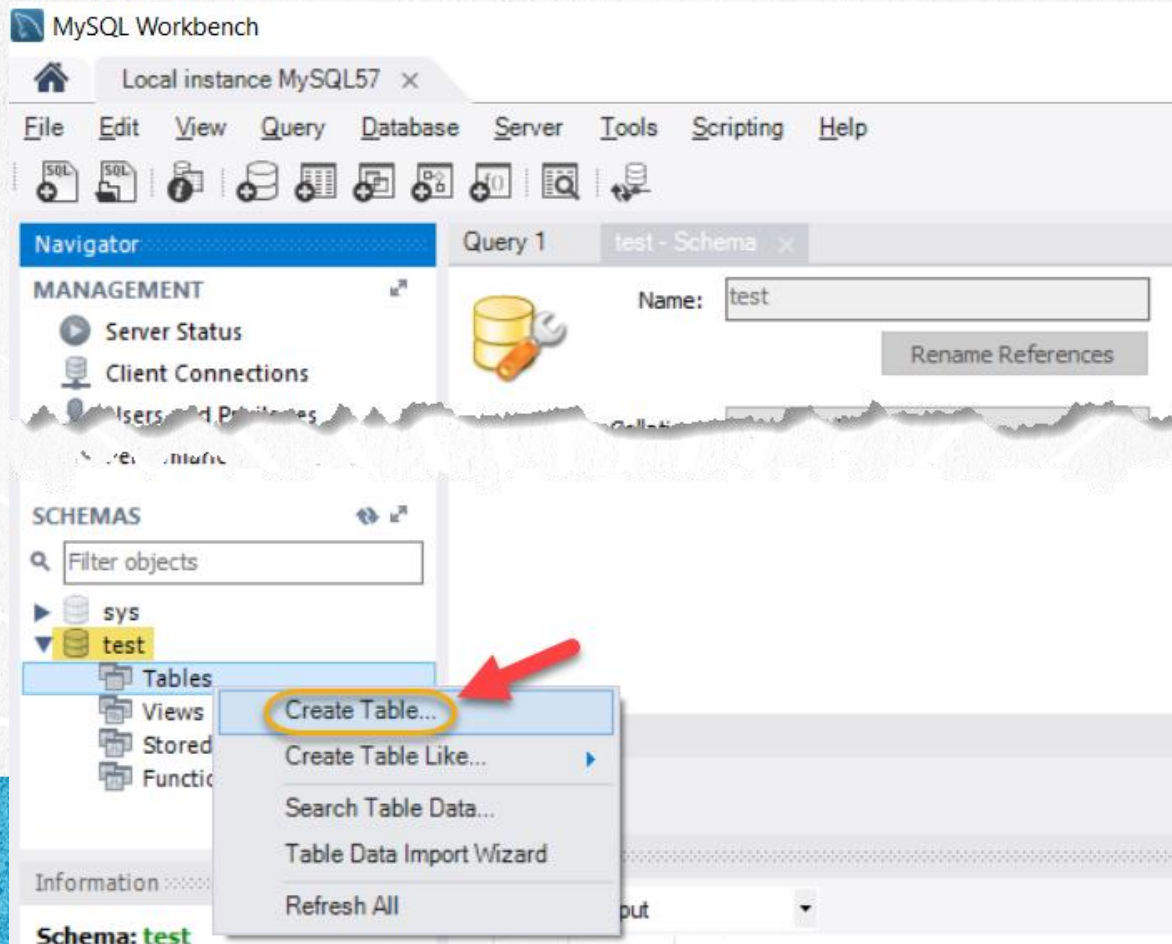
1. CREATE A NEW DATABASE (SCHEMA) IN MYSQL



1. CREATE A NEW DATABASE (SCHEMA) IN MYSQL




2. CREATE A NEW TABLE



2. CREATE A NEW TABLE

Query 1 test - Schema **person - Table** ×

 Table Name: Schema: **test**

Collation: Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id_person	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column Name: Data Type:

Collation: Default:

Comments:


Storage: ☐ Virtual ☐ Stored

☐ Primary Key ☐ Not Null ☐ Unique

☐ Binary ☐ Unsigned ☐ Zero Fill

☐ Auto Increment ☐ Generated

Columns Indexes Foreign Keys Triggers Partitioning Options



2. CREATE A NEW TABLE

Apply SQL Script to Database

Review SQL Script

Apply SQL Script

Review the SQL Script to be Applied on the Database


Online DDL

Algorithm: Default Lock Type: Default

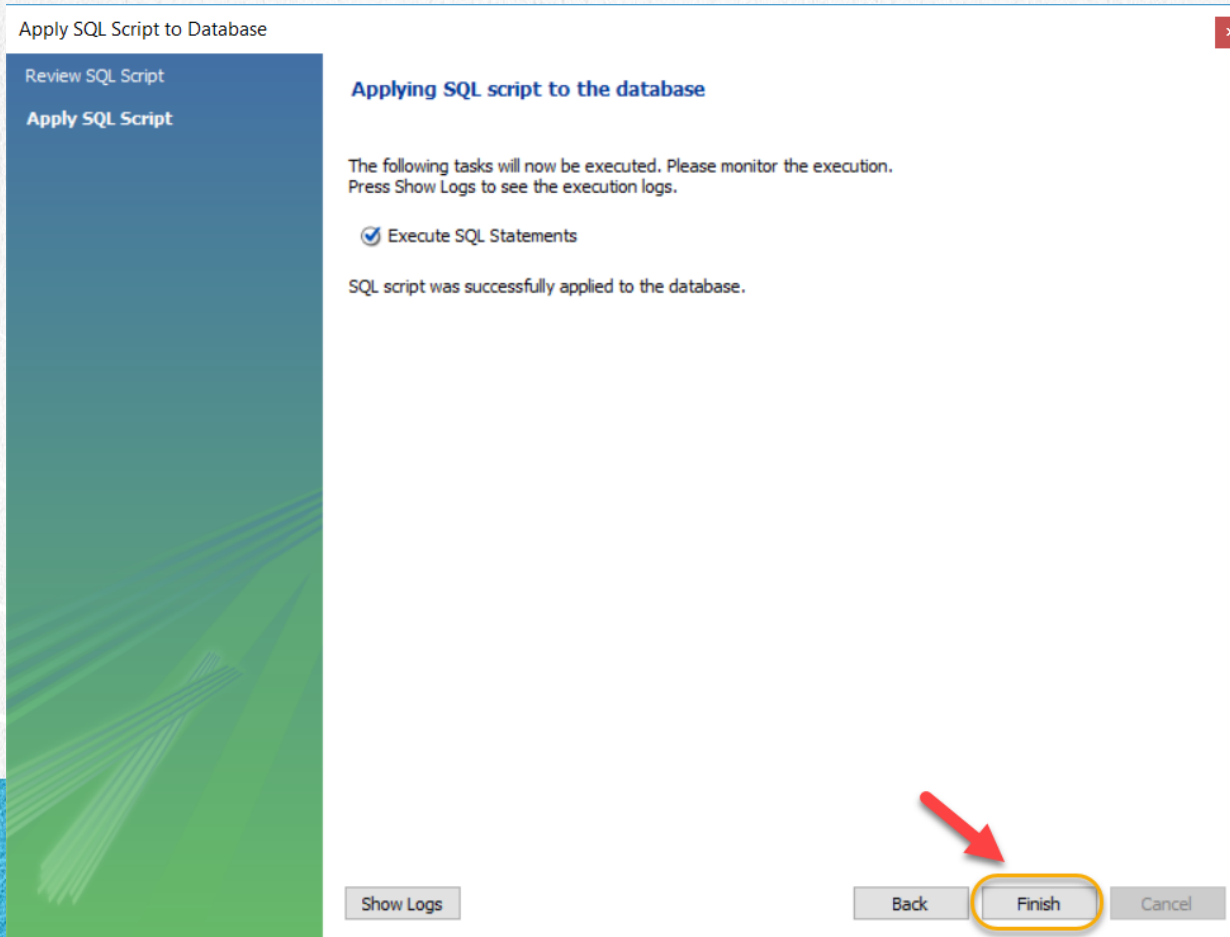
```
1 CREATE TABLE `test`.`person` (  
2   `id_person` INT NOT NULL AUTO_INCREMENT,  
3   `name` VARCHAR(45) NULL,  
4   PRIMARY KEY (`id_person`));  
5
```

< >

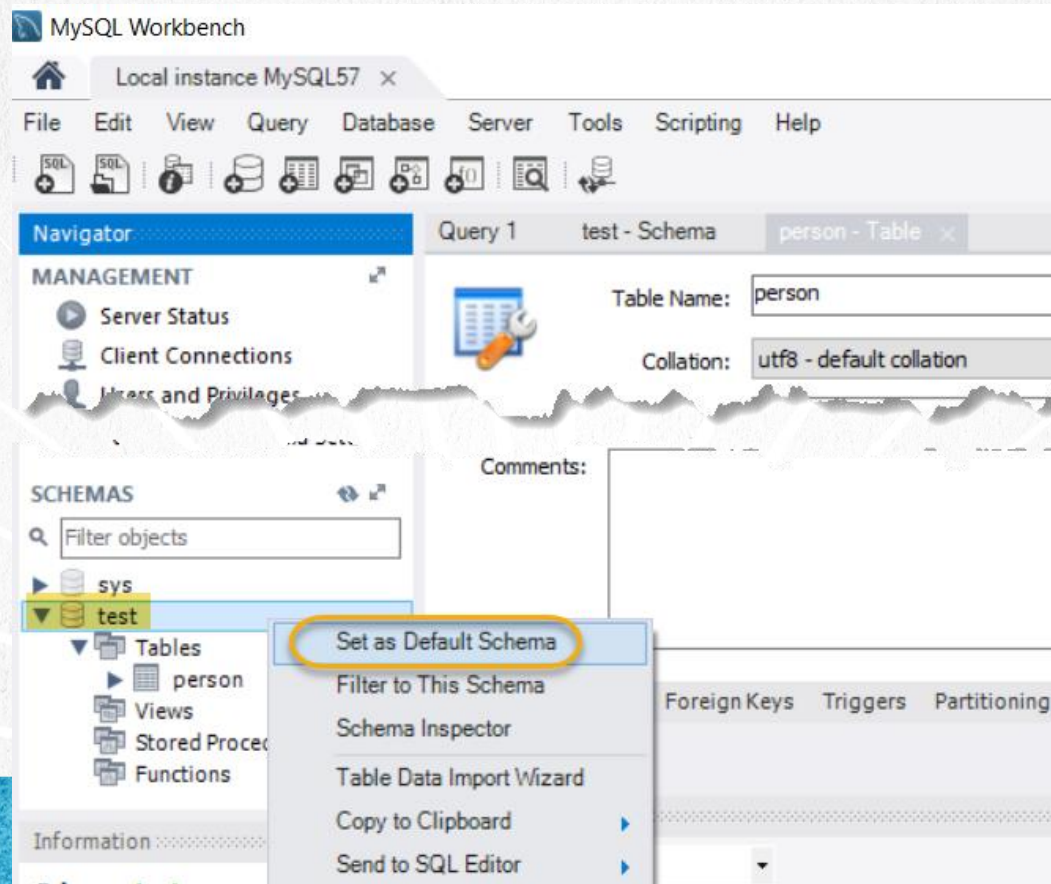
Back Apply Cancel



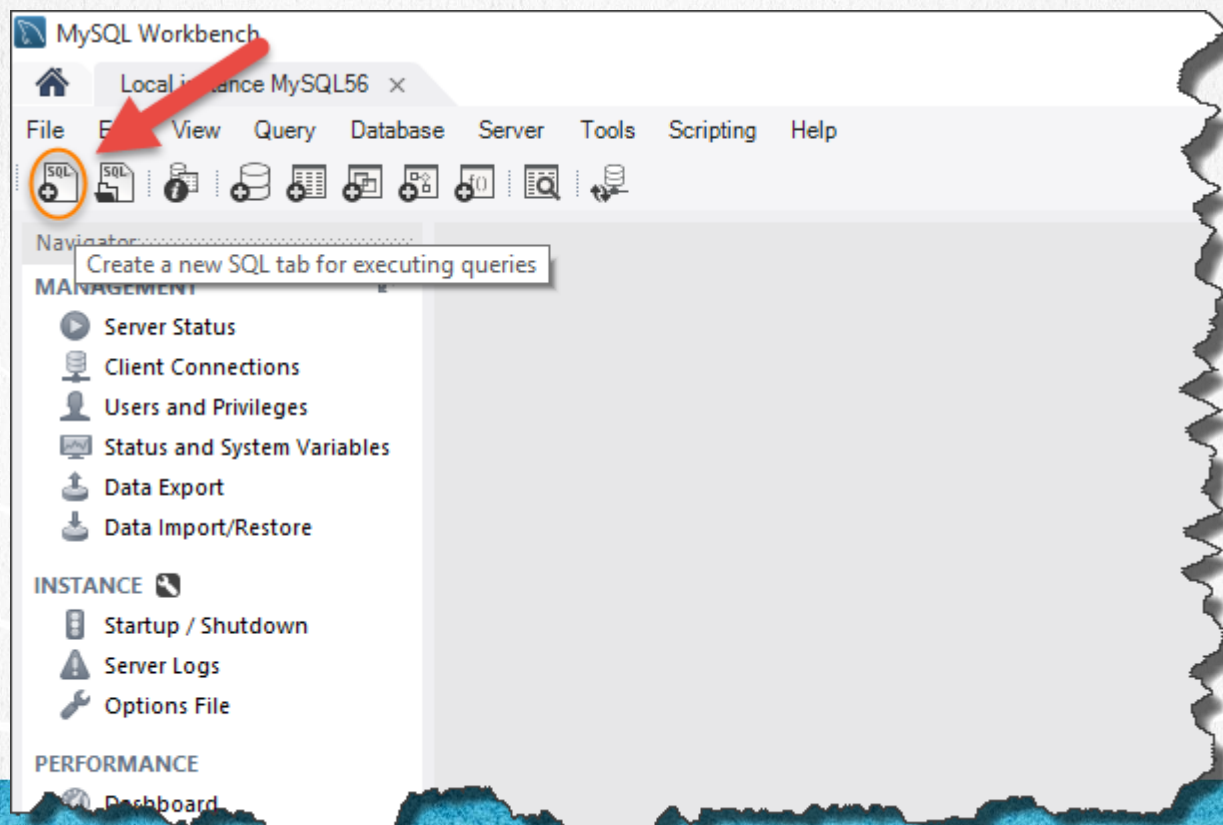
2. CREATE A NEW TABLE



3. SET THE NEW SCHEME AS THE DEFAULT



4. OPEN THE SQL TAB



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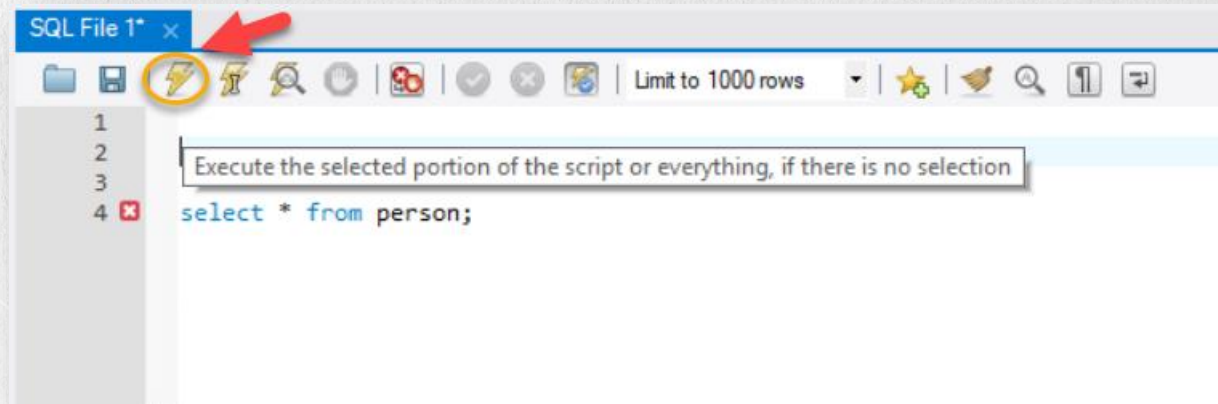
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5. INSERT SENTENCE

Write the next SQL sentences in the console as follows and execute it as show:



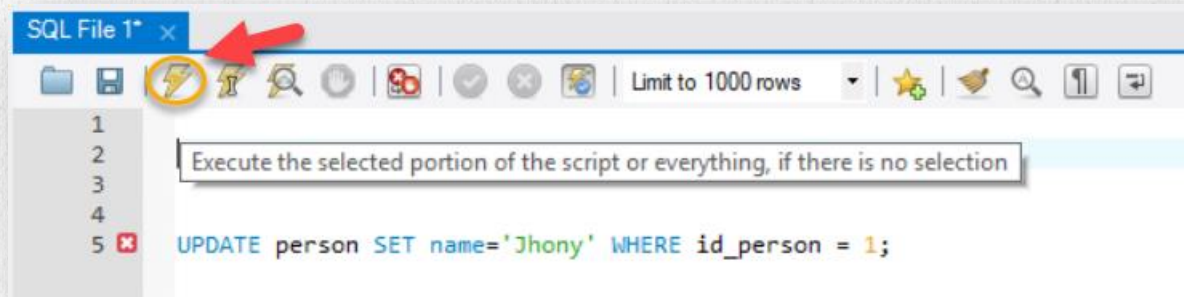
6. SELECT SENTENCE



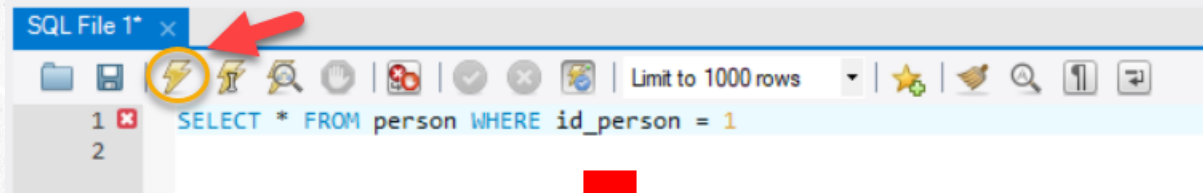
A screenshot of a "Result Grid" window. The toolbar includes icons for grid view, refresh, filter rows, edit, and export. The table below shows the results of the SQL query, with the first three rows highlighted by a yellow circle.

id_person	name
1	John
2	Katty
3	Charly
NULL	NULL

7. UPDATE SENTENCE



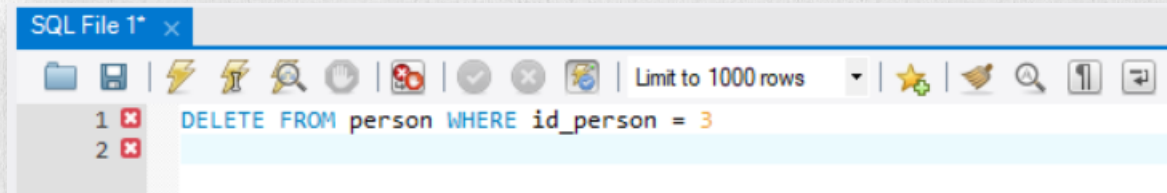
Execute a select statement again using id_person = 1



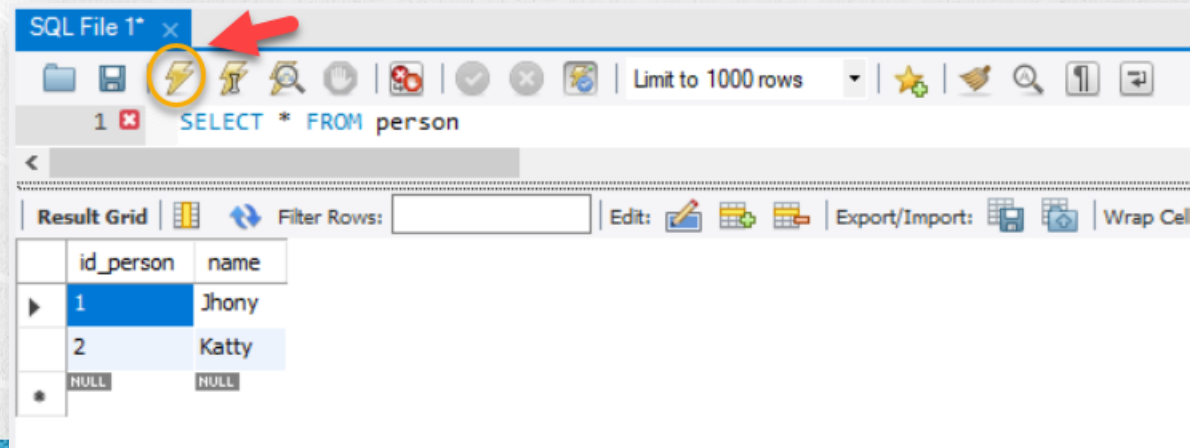
A screenshot of the "Result Grid" window. It displays the results of the SELECT query. The grid has two columns: "id_person" and "name". The first row shows the value "1" for id_person and "Jhony" for name. The second row shows "NULL" for both columns. A red arrow points from the SQL statement in the previous screenshot to this result grid.

	id_person	name
1	1	Jhony
*	NULL	NULL

8. DELETE SENTENCE



Execute a select statement again, and check that one element has been deleted:



EXERCISE CONCLUSION

With this exercise we have created the “**test**” scheme, which we will be working on throughout the course. A schema is a database in MySQL.

On the scheme we can create several database objects, such as tables. We create a table called Person, which has 2 columns.

Finally we execute several sentences to add and modify the data of the Person table.



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