CURSO DE JAVA CON JDBC

MANEJO BÁSICO DE MYSQL



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UNIVERSIDAD

JAVA

Experiencia y Conocimiento para tu vida

CURSO DE JAVA CON JDBC

OBJETIVO DEL EJERCICIO

Crear una nueva base de datos en MySql. Al finalizar deberemos observar lo siguiente:

2	MySQL Workbench	
1	Local instance MySQL56	×
F	ile Edit View Query Dat	base Server Tools Scripting Help
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1	Navigator	persona - Table SQL File 5* SQL File 6* × SQL File 7* SQL File 8*
1	MANAGEMENT	🗀 🔒 🗲 🙀 👰 🕐 🄀 📀 🛞 🥰 Limit to 1000 rows 🔹 🙀 🚿 🔍 🦷 🖓
	 Server Status Client Connections Users and Privileges Status and System Variables Data Export 	1 • SELECT * FROM persona
	Data Import/Restore	<
	SCHEMAS	Result Grid Image: Content: Imag
	A Filter objects ♥ Sega ♥ Tables ♥ Information	▲

PASO 1. CREACIÓN NUEVA BASE DATOS EN MYSQL



PASO 1. CREACIÓN NUEVA BASE DATOS EN MYSQL

MySQL Workbench											
Local instance MySQL56 ×											
File Edit View Query Databas	e Server Tools Scripting Help										
Navigator	sga - Schema 🗙										
MANAGEMENT Image: Comparison of the second sec	Name: Sga The name of the schema. It is recommended to use only alpha-numeric characters. Spaces should be avoided and Refactor model, changing all references found in view, triggers, stored procedures and functions from the old Collation: Server Default Specifies which charset/collations the schema's tables will use if they do not have an explicit setting. Common										
PERFORMANCE Ø Dashboard Æ Performance Reports	Schema										
© ▼ Perrormance Schema Setup SCHEMAS	Apply Revert										

PASO 1. CREACIÓN NUEVA BASE DATOS EN MYSQL

Apply SQL Script to Database	×
Review SQL Script	Review the SQL Script to be Applied on the Database
Apply SQL Script	
	Online DDL Algorithm: Default ~ Lock Type: Default ~
	1 CREATE SCHEMA `sga`; 2
	< > >
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	Back Apply Cancel

MySQL Workbench	
▲ Local instance MySQL56 ×	
File Edit View Query Database Server Tools Scripting Help	
Navigator sga - Schema 🗙	
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Information Search Table Data	ES
Schema: sga Table Data Import Wizard	
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Object Info Session	

sga - Schema	persona - T	able $ imes$									ana na anasan na
	Table Name:	persona				Schema	: sga				~
	Collation:	Schema Default				Engine:	InnoDB				\sim
	Comments:										~ ~
Column Name		Datatype	PK NN	UQ B	UN ZF	AI G	Default/Exp	ression			
id_persona		INT									
apellido		VARCHAR(45)									
apenido		VARCHAR(-D)									
Column Name:	id_persona						Data Type:	INT			
Collation:	Table Default					\sim	Default:				
Comments:							Storage:	🔾 Virtual	Stored		
								🗹 Primary Key	Not Null	Unique	
								Binary	Unsigned	Zero Fill	
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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 `sga`.`persona` (2 `id_persona` INT NOT NULL AUTO_INCREMENT, 3 `nombre` VARCHAR(45) NULL, 4 `apellido` VARCHAR(45) NULL, 5 PRIMARY KEY (`id_persona`));
	Back Apply Cancel

Apply SQL Script to Database

Review SOL Script

Apply SQL Script

Applying SQL script to the database

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

Execute SQL Statements

Show Loas

SQL script was successfully applied to the database.



x

PASO 3. SELECCIONAR EL NUEVO ESQUEMA

NL56 ×	
Database Server Tools	Scripting Help
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~	
Setup � ⊭™	
Setup	
Setup Set as Default Schema Filter to This Schema	
Set as Default Schema Filter to This Schema Schema Inspector	
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard	
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard	•
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard Send to SQL Editor	
Set up Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard Send to SQL Editor Create Schema	
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard Send to SQL Editor Create Schema Alter Schema	
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard Send to SQL Editor Create Schema Alter Schema Drop Schema	
Setup Set as Default Schema Filter to This Schema Schema Inspector Table Data Import Wizard Copy to Clipboard Send to SQL Editor Create Schema Alter Schema Drop Schema Search Table Data	
	L56 × Database Server Tools



PASO 4. ABRIR CONSOLA SQL



PASO 5. SENTENCIA A EJECUTAR

Archivo Sentencias1.sql:

Dar click para descargar el código

```
/*SENTENCIAS INSERT*/
```

```
INSERT INTO persona(nombre, apellido) VALUES('Juan', 'Perez');
```

```
INSERT INTO persona(nombre, apellido) VALUES('Karla','Esparza');
```

```
INSERT INTO persona(nombre, apellido) VALUES('Eduardo','Alvarez');
```

```
/*SENTENCIAS SELECT*/
SELECT * FROM persona;
```

```
/*SENTENCIAS UPDATE*/
UPDATE PERSONA SET nombre = 'Juanito' WHERE id persona = 1;
```

```
/*SENTENCIAS DELETE*/
DELETE FROM PERSONA WHERE id persona = 3;
```

PASO 6. SENTENCIA INSERT

🕅 MySQL Workbench				
A Local instance MySQL56 ×				
File Edit View Query Database	e Se	erver Tool	Scripting Help	
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MANAGEMENT 🖉		8 9	🖅 🙇 💿 🔀 📀 😣 😹 Limit to 1000 rows 🔹 📩 🝠 🔍 👖 🖃	
Server Status		1 • IN	SERT INTO persona(nombre, apellido) VALUES('Juan', 'Perez');	
Users and Privileges		3 • IN	<pre>SERT INTO persona(nombre, apellido) VALUES('Karla','Esparza');</pre>	
🕎 Status and System Variables		4 5 • IN	<pre>SERT INTO persona(nombre, apellido) VALUES('Eduardo','Alvarez');</pre>	
🛓 Data Export		6		
📥 Data Import/Restore				
Scheina: sya			* * * * * * * * * * * * * * * * *	* * * *
	<			
	Outp	out secondaria		
	Ū	Action Output	•	
		Time	Action	Message
	0	1 17:46:38	Apply changes to persona	Changes applied
	8	2 17:48:11	NSERT INTO personas(nombre, apellido) VALUES(Juan', 'Perez')	Error Code: 1146. Table
	0	3 17:49:29	NSERT INTO persona (nombre, apellido) VALUES (Juan', 'Perez')	1 row(s) affected
	0	4 17:49:38	NSERT INTO persona(nombre, apellido) VALUES('Karla', 'Esparza')	1 row(s) affected
	0	5 17:49:39	NSERT INTO persona(nombre, apellido) VALUES('Eduardo','Alvarez')	1 row(s) affected

PASO 7. SENTENCIA SELECT

per	sona - Table	SQL F	ile 5*	SQL File 6*	×						
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	SELECT * FROM persona										
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	id_persona	nombre	apellido								
•	1	Juan	Perez								
	2	Karla	Esparza								
	3	Eduardo	Alvarez								
*	NULL	NULL	NULL								
-											
			and the second sec				and the second				

PASO 8. SENTENCIA UPDATE

persona - Table SQL File 5* SQL File 6* SQL File 7* ×
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UPDATE PERSONA SET nombre = 'Juanito' WHERE id_persona = 1;
2 UPDATE PERSONA SET nombre = 'Juanito' WHERE id_persona = 1;

ре	rsona - Table	SQL F	File 5*	SQL File 6* \times	SQL File 7*			oolubtakaraa
0	- 🛛 🖉	6	. 🕑 🔀		🛞 Limit to 1000 rows	• 🎭 🛫 🔍 👖 🖃		
•	• s	ELECT *	FROM pers	sona		Volvemos a ejecutar la sentenci	ia	
<						select para ver los cambios		>
R	esult Grid 🛛 👖	🚷 Filt	er Rows:	_	🛛 🖾 Edit: 🔏 🖶	Export/Import: 비님 비소 Wrap Cell Content: IA		
	id_persona	nombre	apellido					Result
•	1	Juanito	Perez					Grid
	2	Karla	Esparza					
	3	Eduardo	Alvarez					
•	NULL	NULL	NULL					Form Editor

PASO 9. SENTENCIA DELETE

	persona -	Table	SQL File 5*	SQL File 6*	SQL File 7*	SQL	File 8* \times		
		DELI	F 🕵 🔘 ETE FROM PI	🔀 ⊘ 🛞 Ersona Where	🛞 Limit to 10 id_persona = ∷	00 rows 3;	• 🏂	🥑 🔍 🗓	t ج
pers	sona - Table	SQL	File 5* S	QL File 6* × S	QL File 7* SC	QL File 8*		e Zaranania	
C	I 🖪 🅑) 🗗 🖗	ί 🕐 🔞	0 🛛 🔞	Limit to 1000 rows	s 🕶	☆ 🗹 🤅	2.17	
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	id_persona	nombre	apellido						
►	1	Juanito	Perez						
	2	Karla	Esparza						
*	NULL	NULL	NULL						

CONCLUSIÓN DEL EJERCICIO

Con este ejercicio hemos creado el esquema SGA (Sistema de Gestión de Alumnos), el cual estaremos trabajando a lo largo del curso. Un esquema es una base de datos en MySql.

Sobre el esquema podemos crear varios objetos de bases de datos, como pueden ser tablas. Creamos una tabla llamada personas, la cual tiene 3 columnas.

Finalmente ejecutamos varias sentencias para agregar y modificar los datos de la tabla de personas.

CURSO ONLINE

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