

## **Banco de Dados**

Criando o Modelo Físico no Workbench.

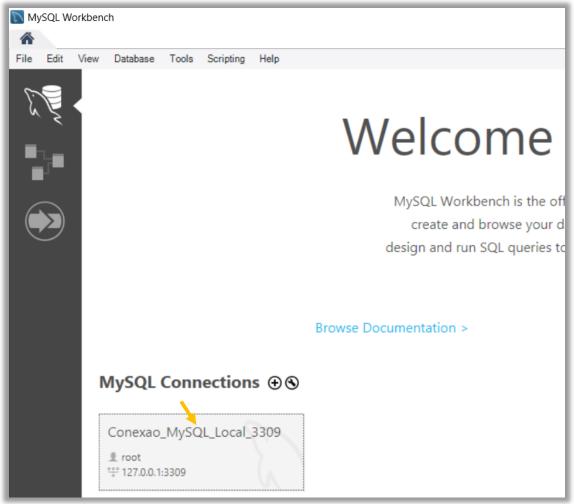


### Roteiro

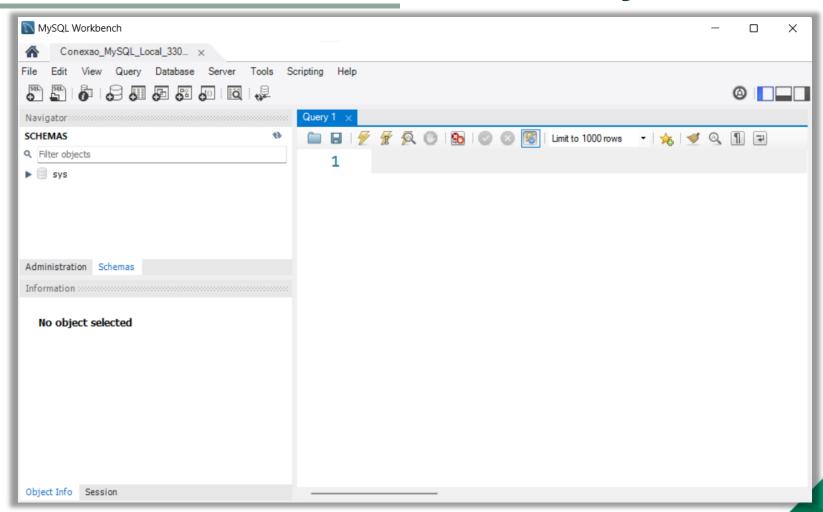
- Criando o Modelo Físico no Workbench:
  - Workbench:
    - Conexão com o MySQL;
    - Criando um Banco de Dados;
    - Tabelas e Relacionamentos;
    - Exibindo Dados da Tabela;
    - Ver SQL de Criação em Tabela Existente;
    - Excluindo Tabela;
    - Excluindo Bando de Dados;
    - Atividades.

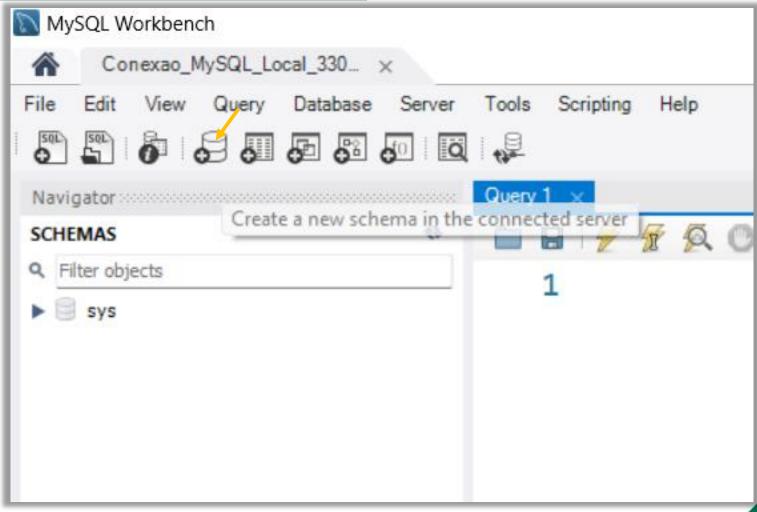


## Workbench: Conexão com o MySQL

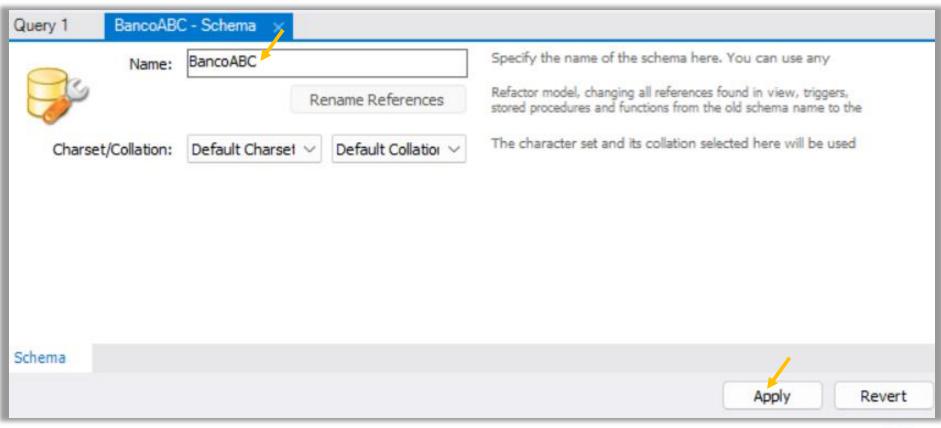


## Workbench: Conexão com o MySQL



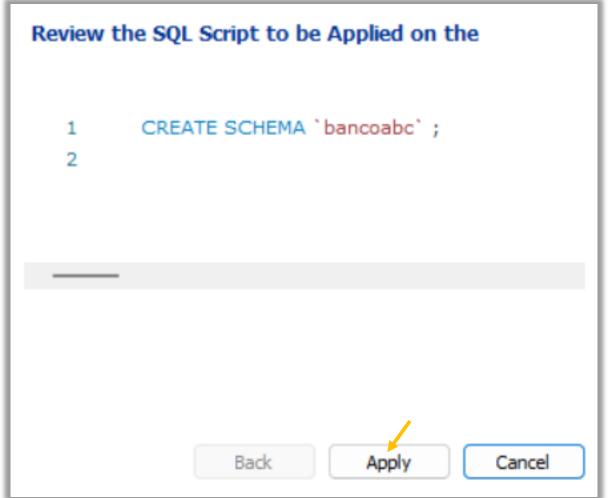


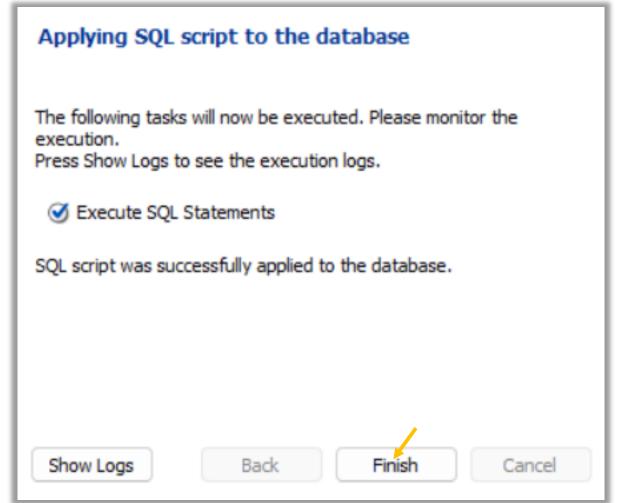


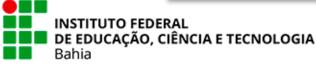


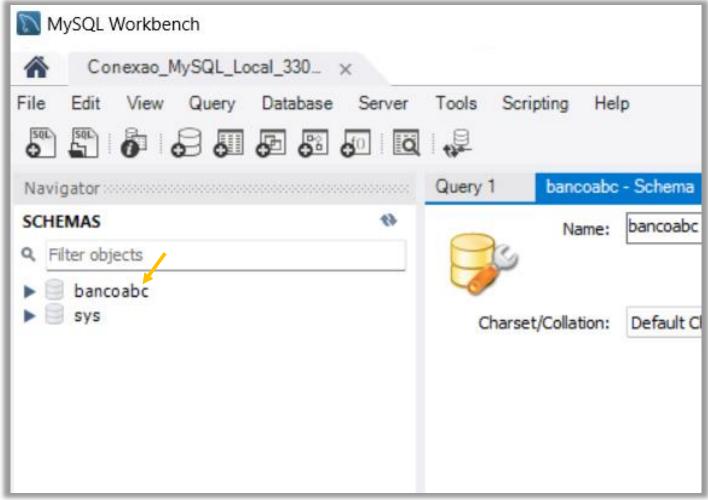


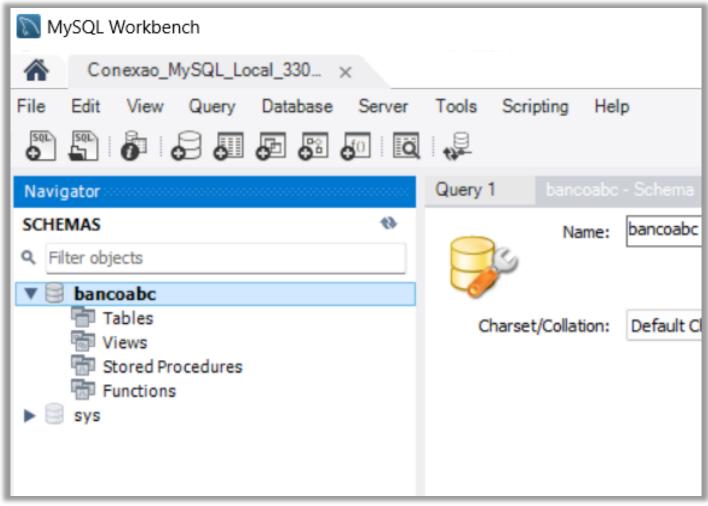












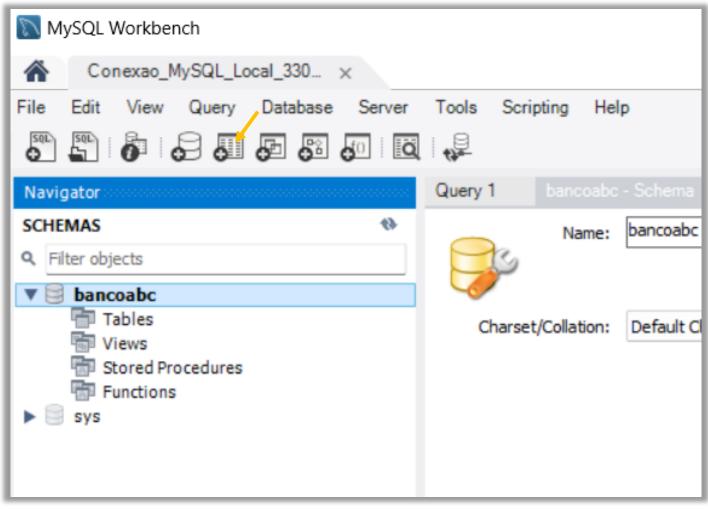
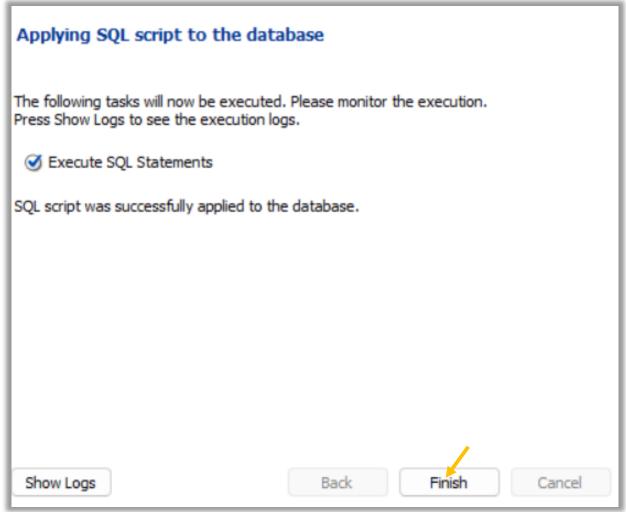
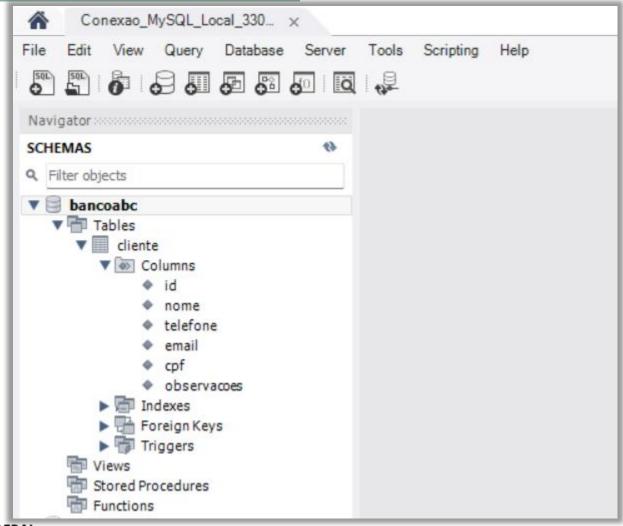


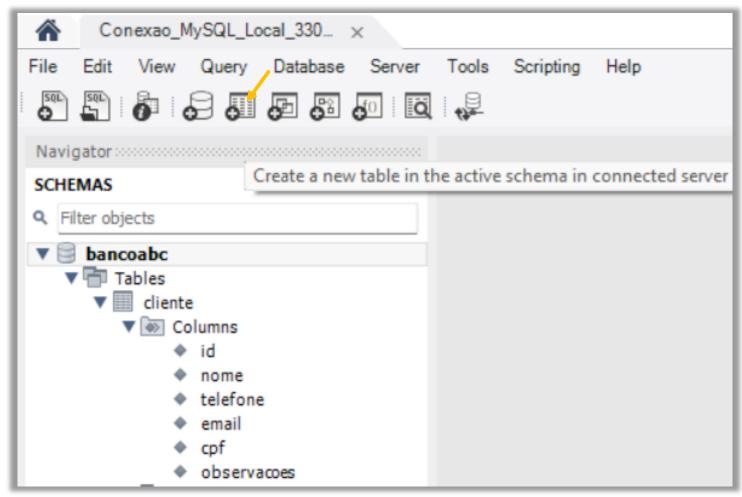
	Table Name:	Cliente			Schema:	bancoabc			$\Rightarrow$
	Charset/Collation:	Default Charset ∨	Default Co	ollation ~	Engine:	InnoDB		`	~
	Comments:							4	7
Column Name		Datatype	PK NN	UQ B	UN ZF	AI G	Default/Expressi	ion	
id ?		INT							
nome		VARCHAR(50)							
telefone		BIGINT							
email		VARCHAR(40)							'
		BIGINT							
observacoe	S	VARCHAR(100)							
Column Nam	e: id			Data Typ	e: INT				
Charset/Collatio	n: Default Charse	t V Default Colla	tion ~	Defau	lt:				
Comment	ts:			Storag	e: Virtu	ual	<ul><li>Stored</li></ul>		
					Prim	nary Key	Not Null	Unique	
					Bina	ary	Unsigned	Zero Fill	
					Auto	o Increment	Generated		
Columns Inde	xes Foreign Keys	Triggers Partition	ing Option	ns				/	
								Apply	Revert

```
Review the SQL Script to be Applied on the Database
          CREATE TABLE 'bancoabc'. 'cliente' (
           "id" INT NOT NULL AUTO_INCREMENT,
           'nome' VARCHAR(50) NOT NULL,
           'telefone' BIGINT NOT NULL,
           'email' VARCHAR(40) NOT NULL,
           'cpf' BIGINT NOT NULL,
           'observacoes' VARCHAR(100) NOT NULL,
           PRIMARY KEY ('id'));
                                  Back
                                                           Cancel
                                               Apply
```



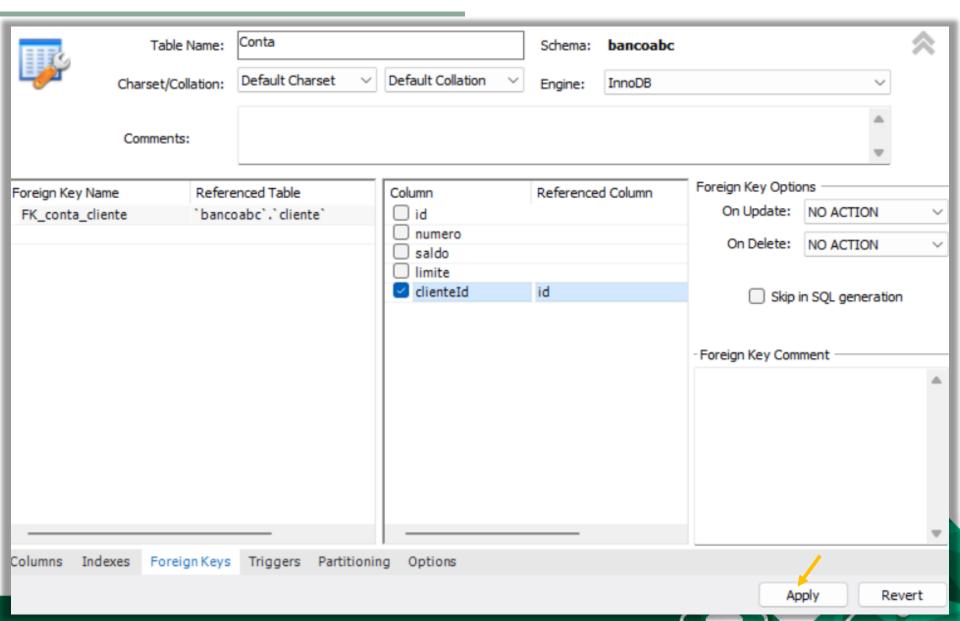






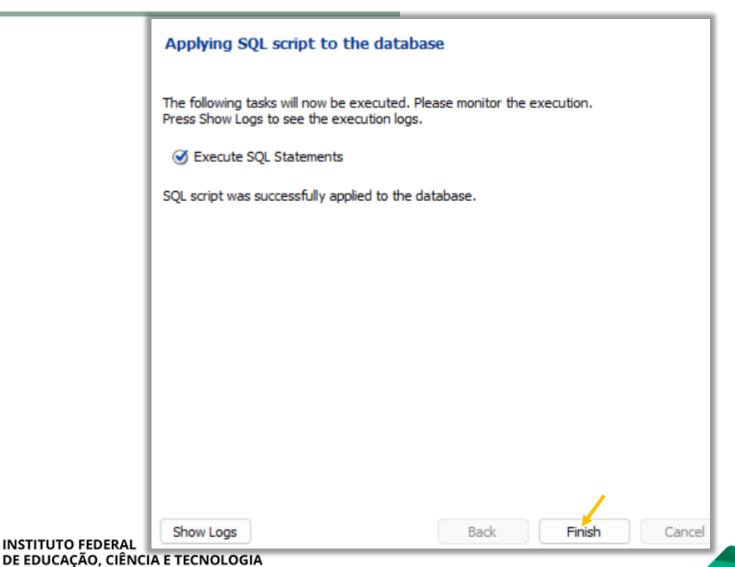


Te.	Table Name:	Conta			Schema	bancoabo	bancoabc		
	Charset/Collation:	Default Charset ∨	Default C	ollation ∨	Engine:	InnoDB		`	/
	Comments:							4	7
Column Name		Datatype	PK NN	UQ B	UN ZF	AI G	Default/Express	ion	
🕴 id		INT	$\checkmark$						
numero		BIGINT							
		DOUBLE							
		DOUBLE			8 8				- 1
		INT			7 7				
			0 0	0 0	0 0	0 0			
Column Nam	e: dienteId			Data Ty	pe: INT				
Charset/Collatio	n: Default Charse	t ∨ Default Collat	ion ∨	Defa	ult:				
Comment	ts:			Stora	ge: 🔘 Vir	rtual	Stored		
					☐ Pr	imary Key	Not Null	Unique	
					Bir	nary	Unsigned	Zero Fill	
					_ Au	uto Increment	Generated		
Columns Inde	xes Foreign Keys	Triggers Partitionin	ng Optio	ns					
								Apply	Revert

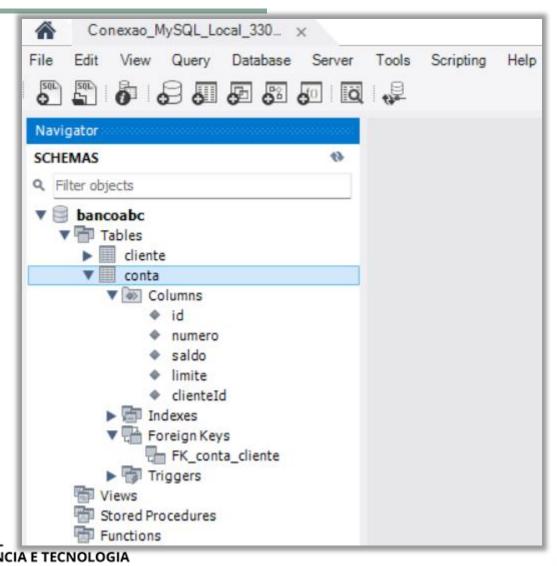


```
Review the SQL Script to be Applied on the Database
       ○ CREATE TABLE `bancoabc`.`conta` (
           'id' INT NOT NULL AUTO_INCREMENT,
           'numero' BIGINT NOT NULL,
   3
           'saldo' DOUBLE NOT NULL,
           'limite' DOUBLE NOT NULL,
           'clienteId' INT NOT NULL,
   6
           PRIMARY KEY ('id'),
           INDEX 'FK conta cliente idx' ('clienteId' ASC) VISIBLE,
   8
           CONSTRAINT 'FK_conta_cliente'
   9
            FOREIGN KEY ('clienteId')
  10
            REFERENCES 'bancoabc'.'cliente' ('id')
  11
            ON DELETE NO ACTION
  12
            ON UPDATE NO ACTION);
  13
                                                               Cancel
                                      Back
                                                  Apply
```



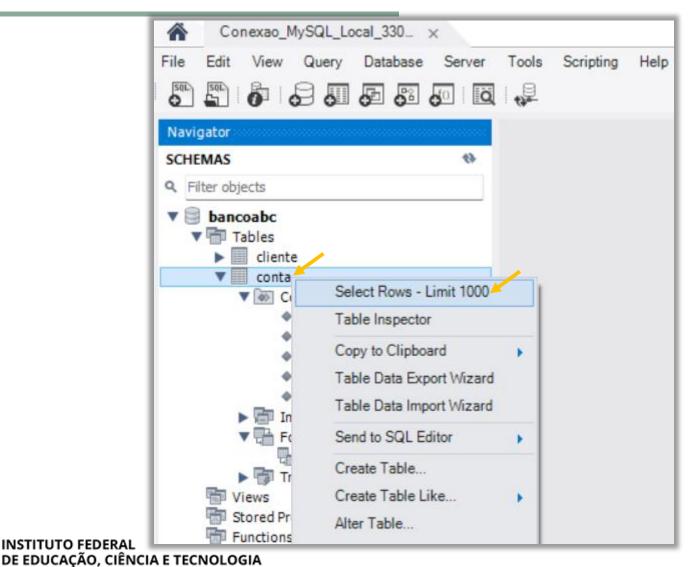


Bahia



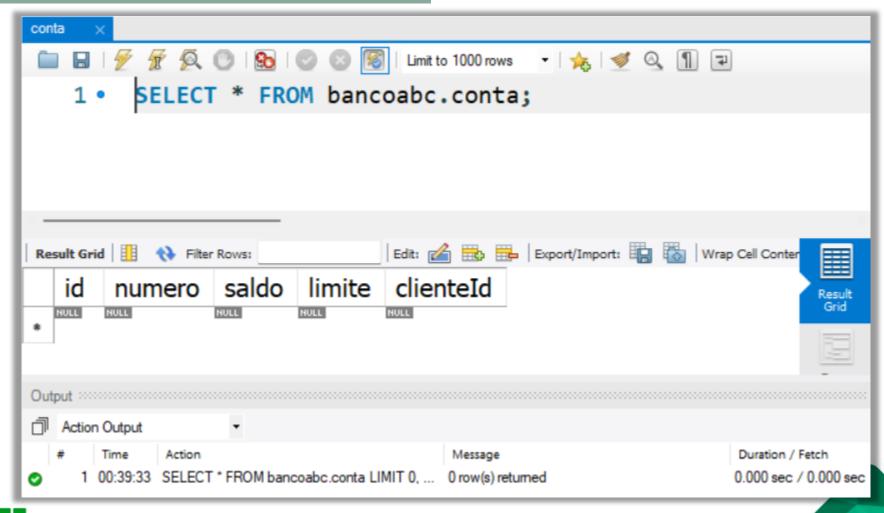


#### Workbench: Exibindo Dados da Tabela



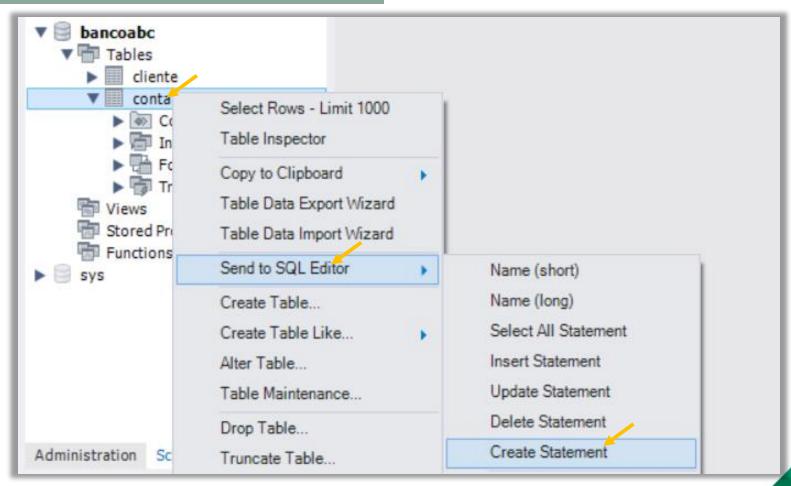


#### Workbench: Exibindo Dados da Tabela





## Workbench: Ver SQL de Criação em Tabela Existente

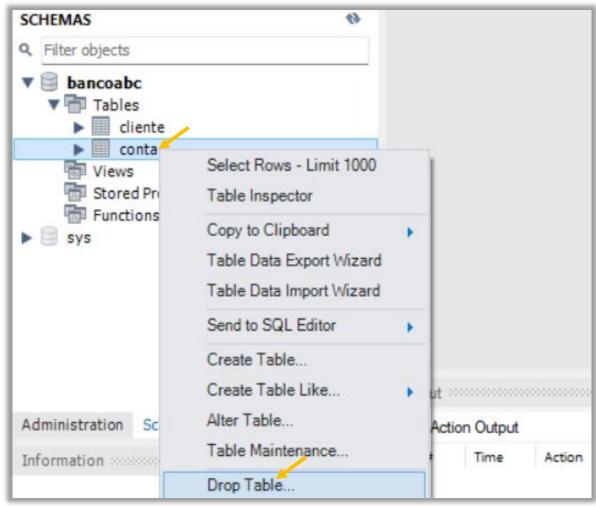


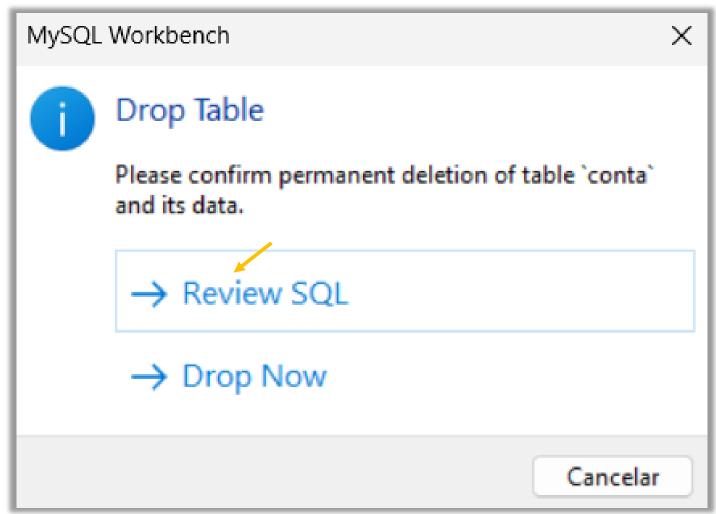
## Workbench: Ver SQL de Criação em Tabela Existente

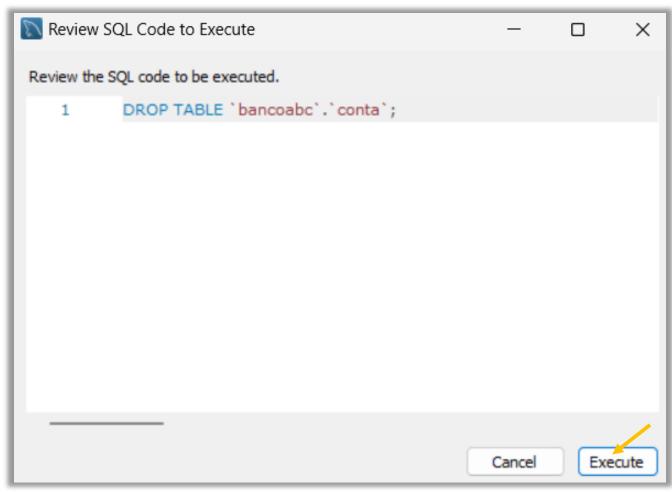
```
1 • 

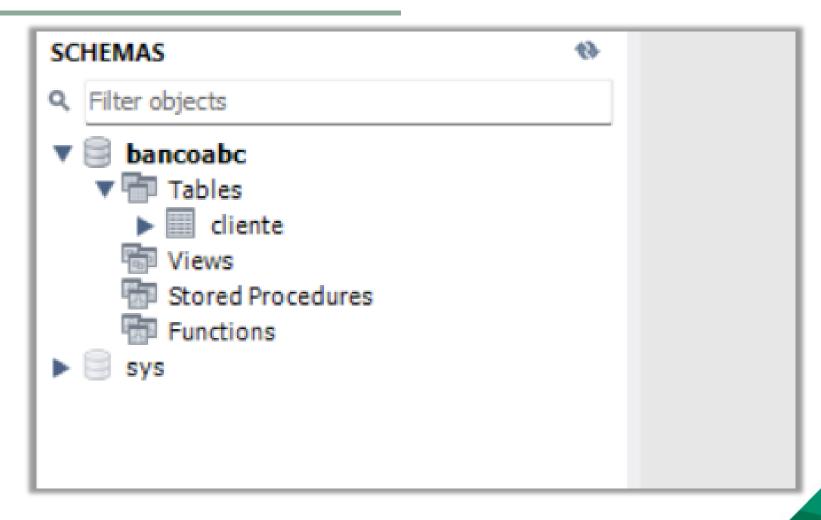
○ CREATE TABLE `conta` (
      `id` int NOT NULL AUTO_INCREMENT,
2
3
      `numero` bigint NOT NULL,
      `saldo` double NOT NULL,
4
      `limite` double NOT NULL,
5
      `clienteId` int NOT NULL,
6
      PRIMARY KEY ('id'),
      KEY `FK_conta_cliente_idx` (`clienteId`),
8
      CONSTRAINT `FK_conta_cliente`
      FOREIGN KEY (`clienteId`) REFERENCES `cliente` (`id`)
10
11
     ) ENGINE=InnoDB
12
    DEFAULT CHARSET=utf8mb4
13
    COLLATE=utf8mb4_0900_ai_ci;
14
```

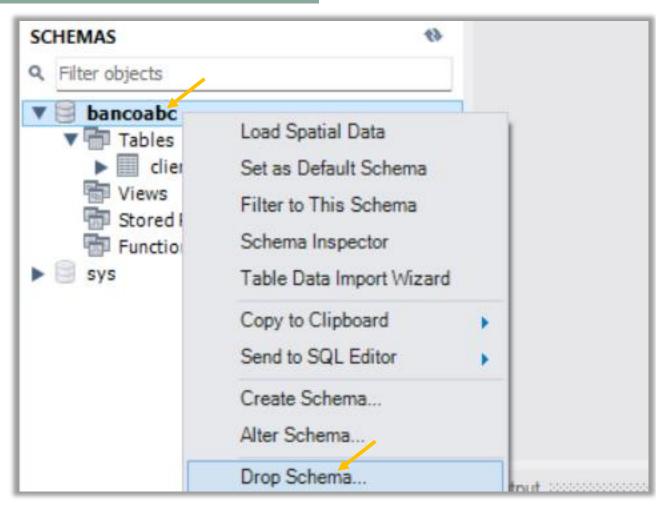


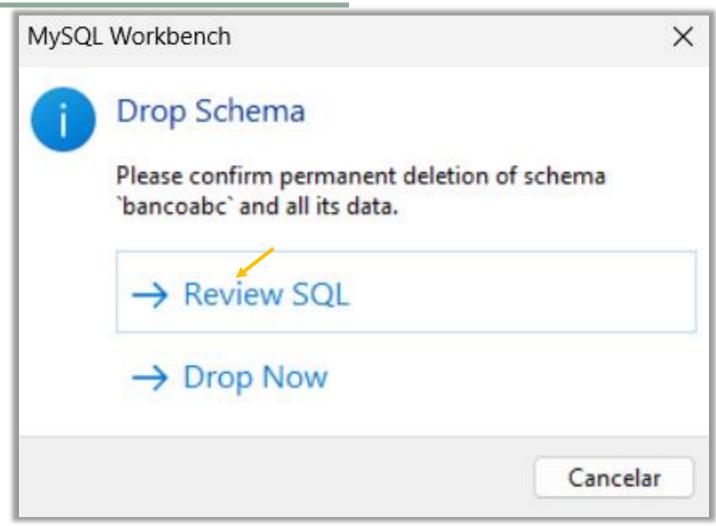


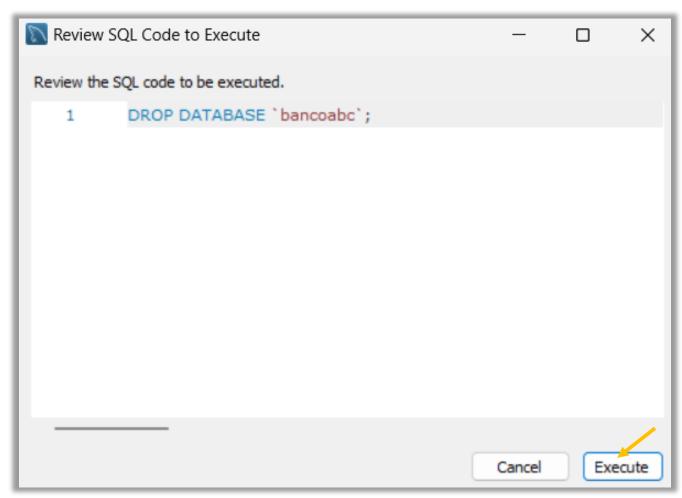


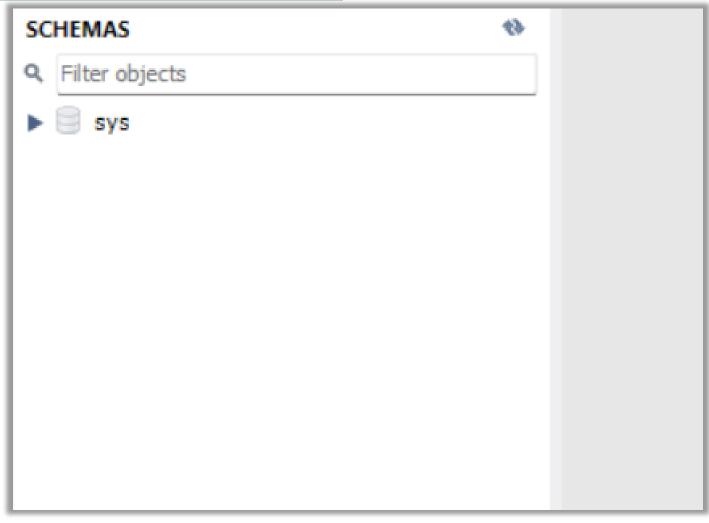












#### **Exercícios**

- Abra uma conexão com o MySQL utilizando Workbench, conforme apresentado nos slides anteriores.
- 2) Conectado ao MySQL através do Workbench, crie os exemplos apresentados nos slides anteriores.





## Obrigado!

# Questões?



