



Class	Professor	Student - Cohort
AWS	Dr. Leo Souquet	Sebastien Castier – S20
RDS Database mySQL and Workbench		

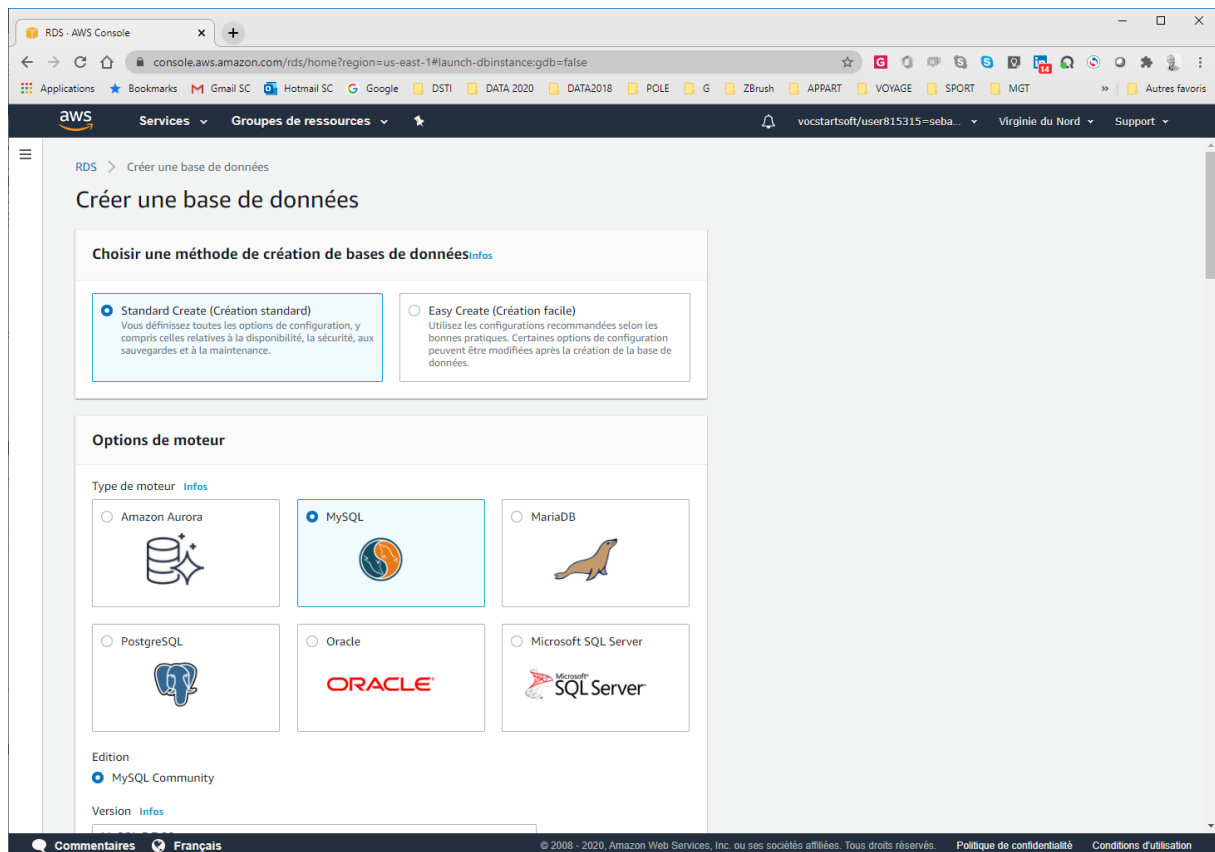
AMAZON Workshop :

Launch a MySQL Sever - Check the "Free Tier Option"

Connect to a Database and create your first table and your first Data entry in this table.

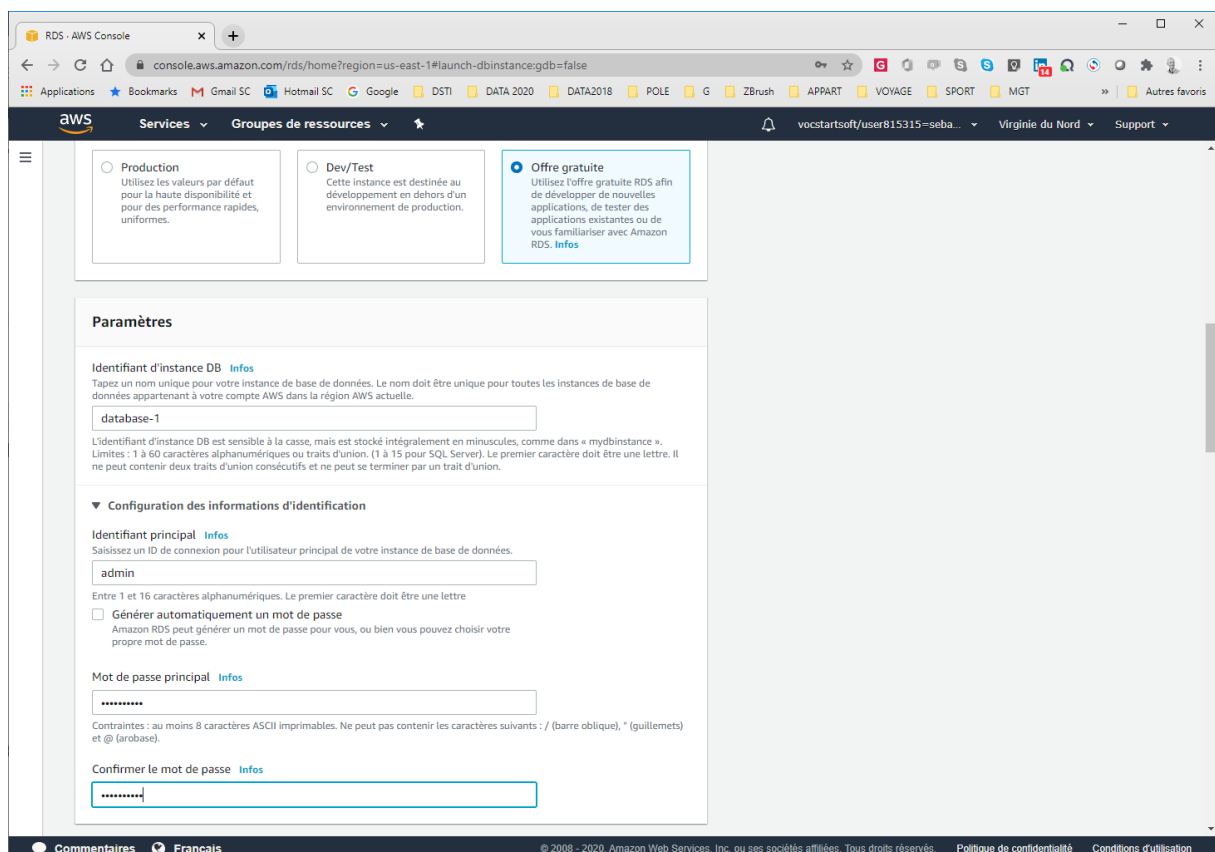
(Connect using WorkBench for <https://www.mysql.com/products/workbench/>)

The screenshot shows the AWS RDS console interface. At the top, there's a navigation bar with the AWS logo and 'Services' dropdown. Below it, a header section contains a notification about Amazon Aurora. The main content area is divided into two columns. The left column, titled 'Ressources', lists various RDS resources in the US East (N. Virginia) region, including instances, storage, and options. The right column, titled 'Informations supplémentaires', provides links to documentation, guides, and forums. At the bottom, there's a section for 'Créer une base de données' with a prominent orange button 'Créer une base de données'. The footer contains copyright information and links to the privacy policy and terms of use.



Offre gratuite

Mdp admin



Create new VPC

Public Access

Create security group

The screenshot shows the 'Connectivité' (Connectivity) page in the AWS RDS console. The page is for configuring a new database instance. It includes sections for VPC selection, subnets, public accessibility, and security groups.

Connectivité

Virtual Private Cloud (VPC) [Infos](#)
VPC définissant l'environnement de mise en réseau virtuel pour cette instance de base de données.

Seuls les VPC avec un groupe de sous-réseaux de base de données correspondant sont répertoriés.

Configuration de connectivité supplémentaire

Groupe de sous-réseaux [Infos](#)
Groupe de sous-réseaux de base de données qui définit les sous-réseaux et les plages IP que l'instance de base de données peut utiliser dans le VPC que vous avez sélectionné.

Accessible publiquement [Infos](#)

☒ **Oui**
Les instances Amazon EC2 et les appareils à l'extérieur du VPC peuvent se connecter à votre base de données. Choisissez un ou plusieurs groupes de sécurité VPC spécifiant quels appareils et quelles instances EC2 au sein du VPC peuvent se connecter à la base de données.

☐ **Non**
RDS n'attribue pas d'adresse IP publique à la base de données. Seules les instances Amazon EC2 et les appareils au sein du VPC peuvent se connecter à votre base de données.

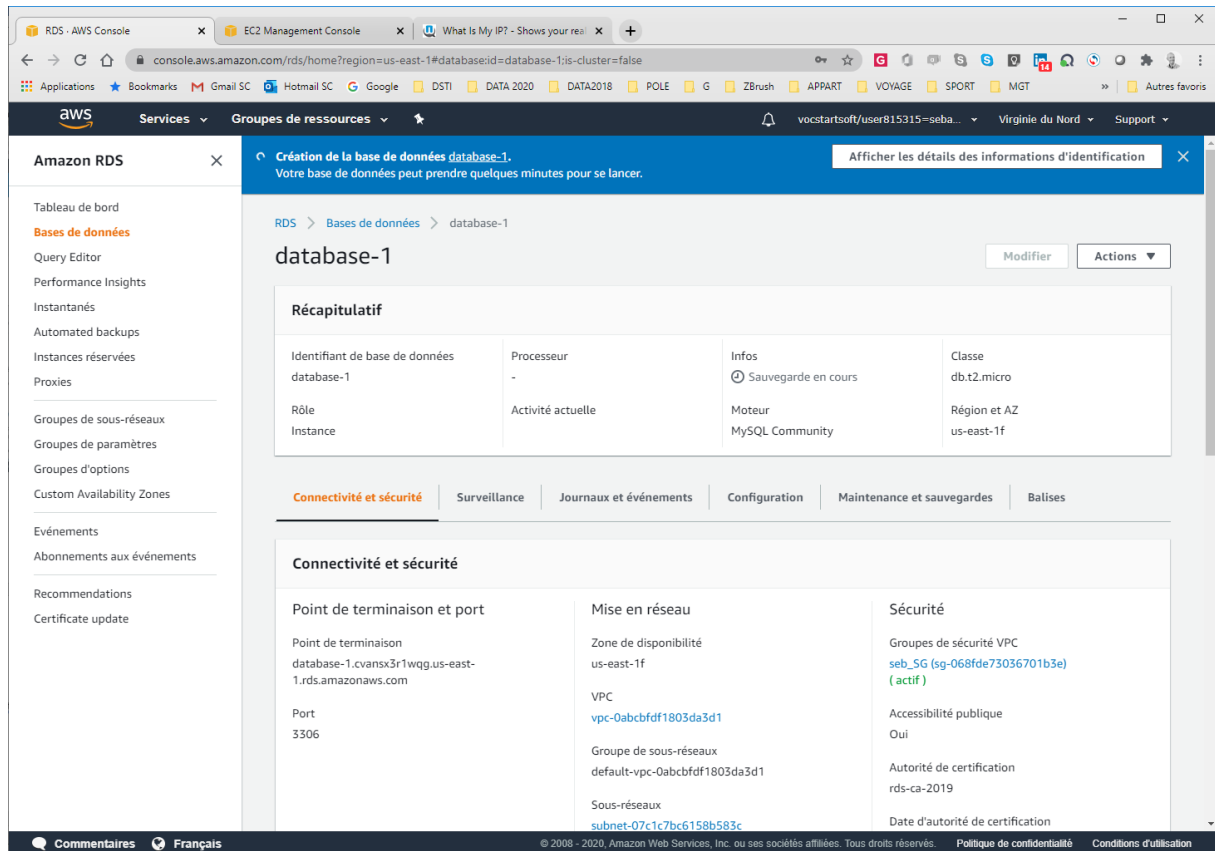
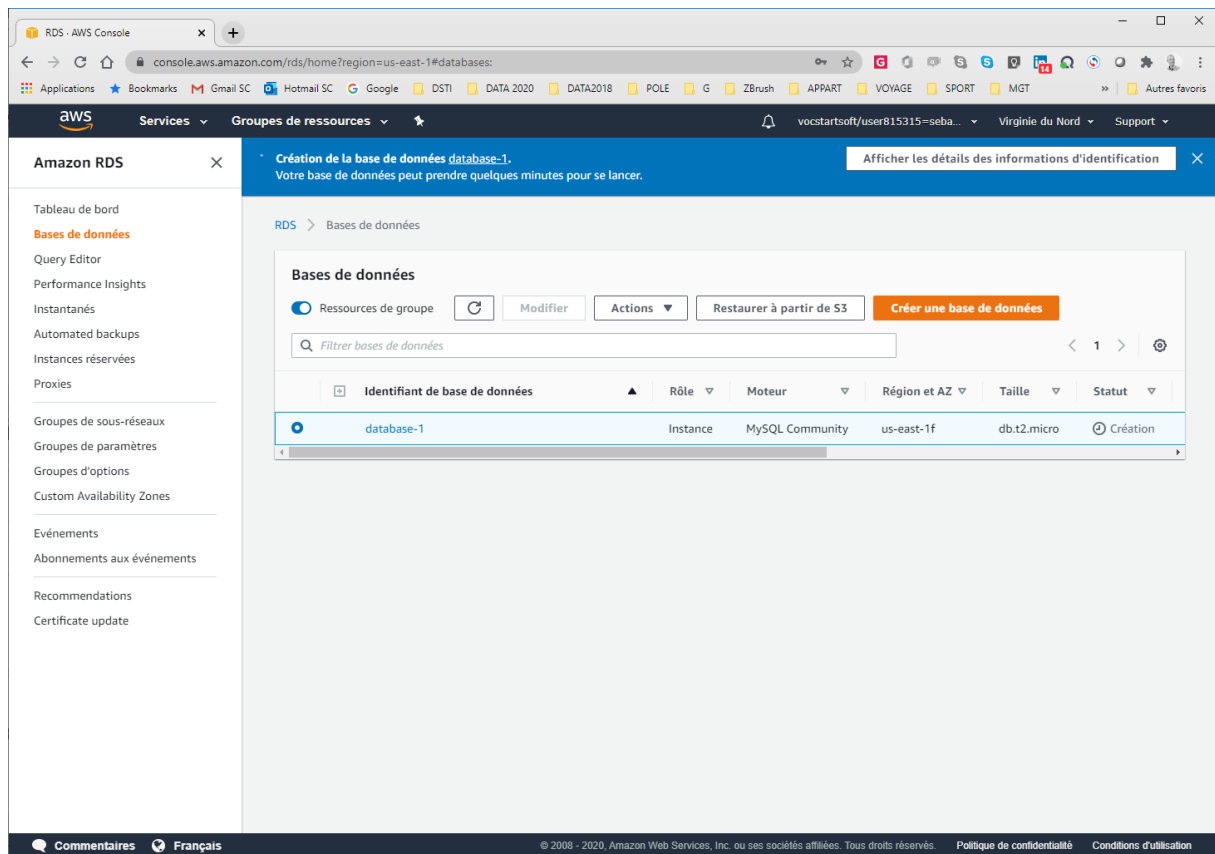
Groupe de sécurité VPC
Choisissez un ou plusieurs groupes de sécurité RDS auxquels autoriser l'accès à votre base de données. Assurez-vous que les règles des groupes de sécurité autorisent le trafic entrant depuis les appareils et les instances EC2 en dehors de votre VPC. (Les groupes de sécurité sont requis pour les bases de données accessibles publiquement.)

☐ **Choisir existants**
Choisir les groupes de sécurité VPC existants

☒ **Créer**
Créer un groupe de sécurité VPC

Nom du nouveau groupe de sécurité VPC

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A terminaison point is provided to access the database :

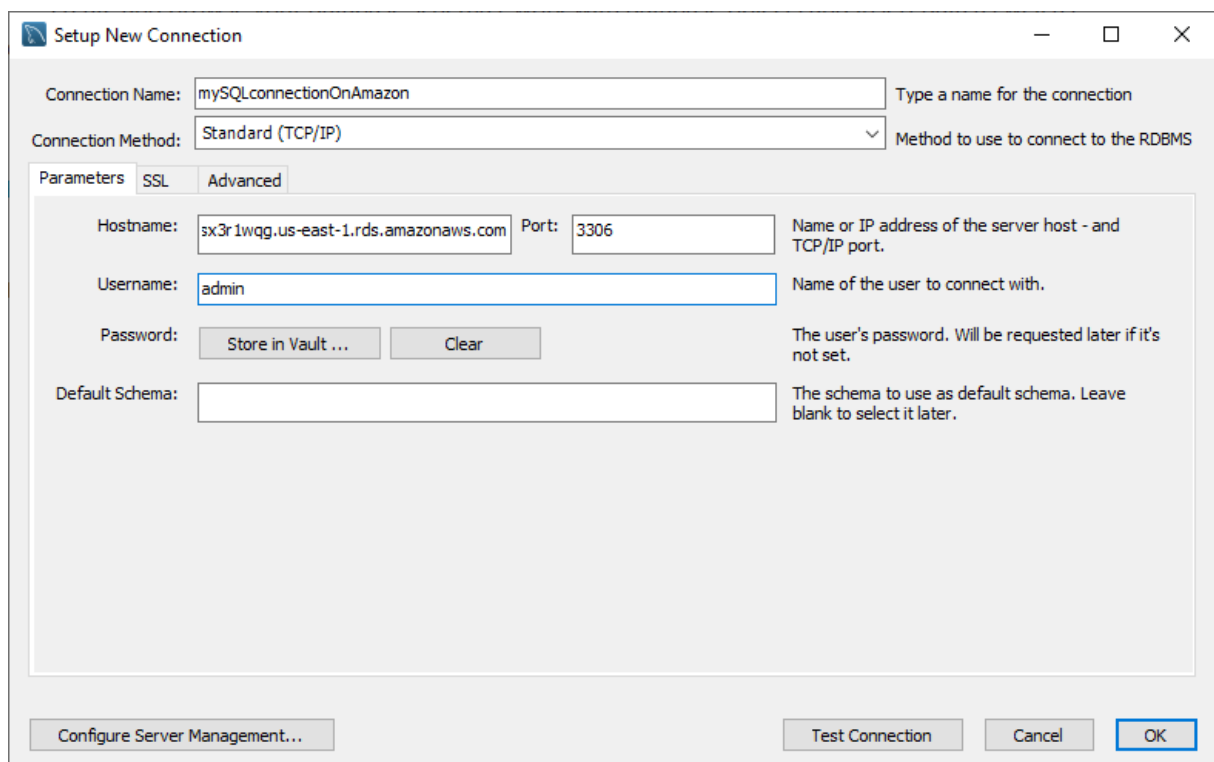
database-1.cvansx3r1wqg.us-east-1.rds.amazonaws.com
(mySQL port = 3306)

Workbench must be downloaded to connect to the database :

<https://dev.mysql.com/downloads/workbench/>

Launch Workbench and fill :

Connection name, Hostname (terminaison point), username



Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

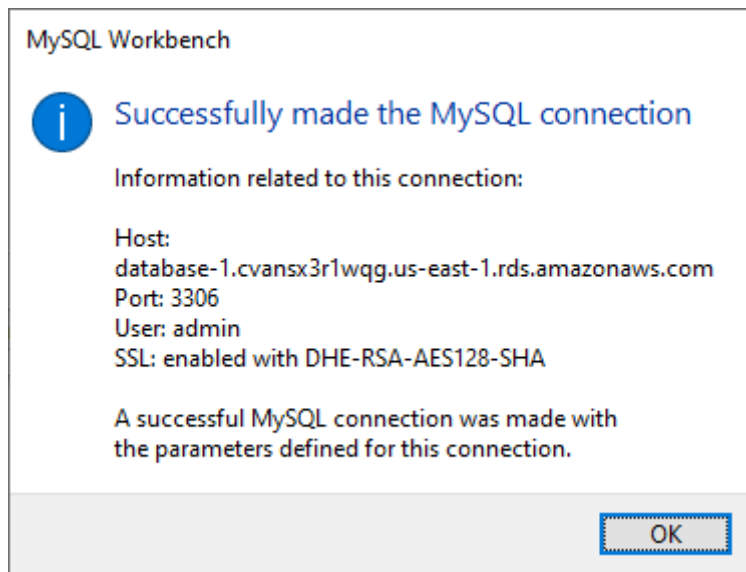
Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

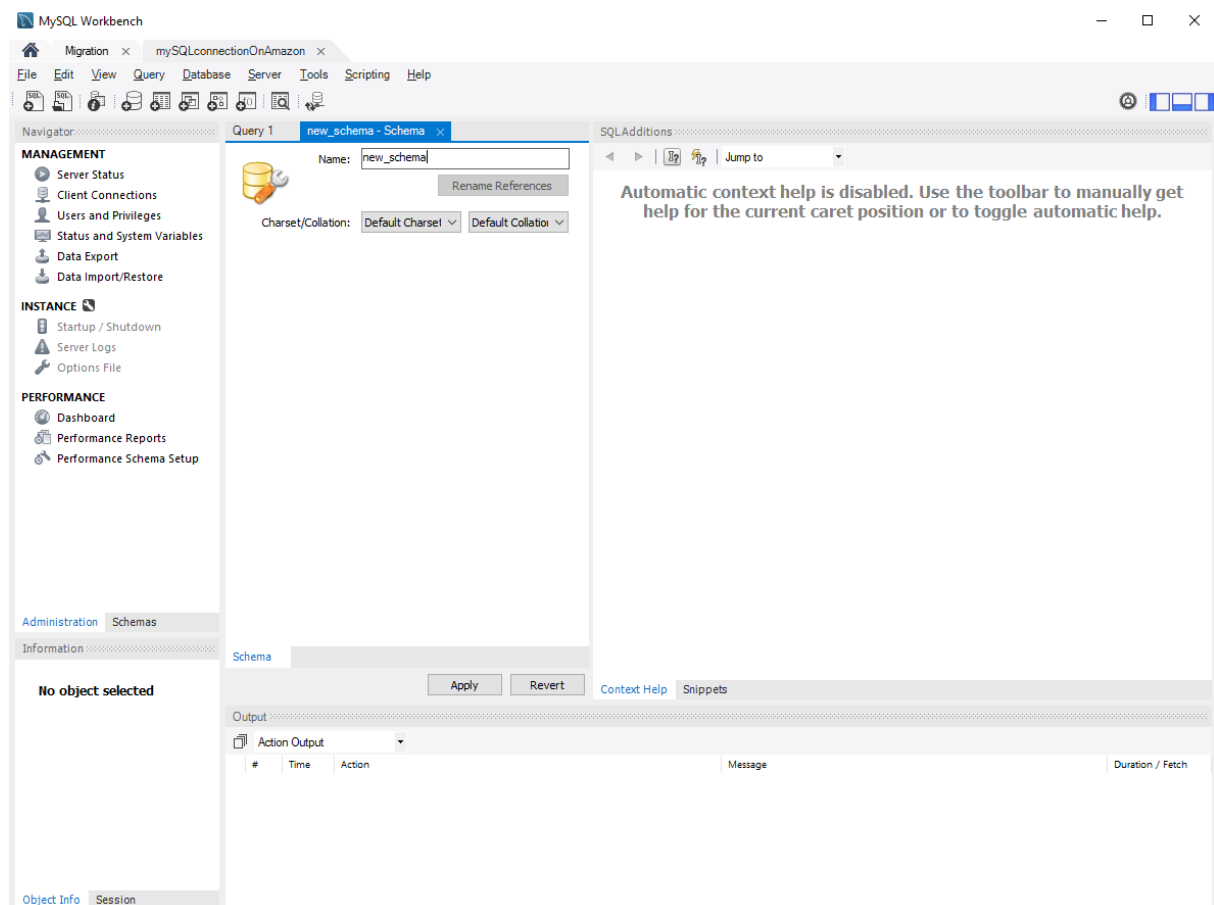
Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.



Open SQL Editor



New schema

Select this schema, create a new table, fill it.

MySQL Workbench

Migration x mySQLconnectionOnAmazon x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 new_schema - Schema Directory - Table x

SCHEMAS

Filter objects

- innodb
- new_schema
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Table Name: Directory Schema: new_schema

Charset/Collation: Default Charset Default Collation Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
ID	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"/>	
LastName	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FirstName	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: ID Data Type: INT

Charset/Collation: Default Charset Default 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

Apply Revert

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	00:33:34	Apply changes to new_schema	Changes applied	

Schema: new_schema

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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 `new_schema`.`Directory` (  
2   `ID` INT NOT NULL AUTO_INCREMENT,  
3   `LastName` VARCHAR(45) NOT NULL,  
4   `FirstName` VARCHAR(45) NULL,  
5   PRIMARY KEY (`ID`));  
6
```

< >

Back

Apply

Cancel

MySQL Workbench

— □ ×

Migration × mySQLconnectionOnAmazon ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- innodb
- new_schema
 - Tables
 - Directory
 - Columns
 - Indexes
 - Foreign Keys
 - Triggers
 - Views
 - Stored Procedures
 - Functions
 - sys

Administration Schemas

Information

Table: Directory

Columns:

- ID int(11) AI PK
- LastName varchar(45)
- FirstName varchar(45)

Object Info Session

Query 1 new_schema - Schema Directory - Table Directory ×

Limit to 1000 rows

1 • SELECT * FROM new_schema.Directory;

Result Grid

ID	LastName	FirstName
1	CASTIER	Sebastien
2	BRAZA	Faouzi
*	NULL	NULL

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Form Editor

Field Types

Query Stats

Directory 1 ×

Apply Revert Context Help Snippets

Output

Action Output

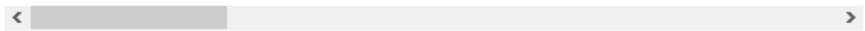
#	Time	Action	Message	Duration / Fetch
1	00:33:34	Apply changes to new_schema	Changes applied	
2	00:39:16	Apply changes to Directory	Changes applied	
3	00:39:45	SELECT * FROM new_schema.Directory LIMIT 0, 1000	0 row(s) returned	0.093 sec / 0.000 sec

Review SQL Script

Apply SQL Script

Review the SQL Script to be Applied on the Database

```
1  INSERT INTO `new_schema`.`Directory` (`ID`, `LastName`, `FirstName`) VALUES
2  INSERT INTO `new_schema`.`Directory` (`ID`, `LastName`, `FirstName`) VALUES
3
```



Back

Apply

Cancel