



INSTITUTO TECNOLÓGICO DE CIUDAD MADERO

Carrera: Ingeniería en sistemas computacionales

Materia:
“Administración de Base de Datos”

Nombre del trabajo:

Tarea 1: Montar BD AdventureWorks.

Tarea 2: Crear un usuario de solo lectura.

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Fecha de entrega:
01/06/2025

Hora: 04:00 PM – 05:00 PM

Tarea 1 Montar el respaldo de la base de datos Adventure Works en SQL Management Studio:

1. Descargar los respaldos de Adventure Works

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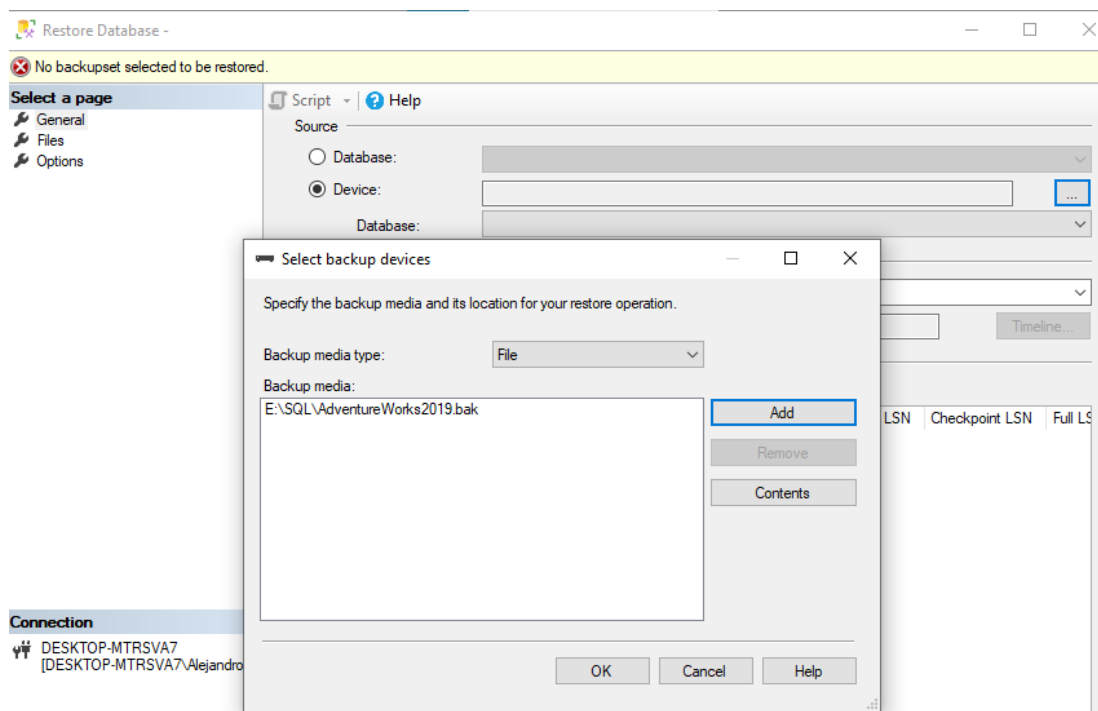
AdventureWorks sample databases

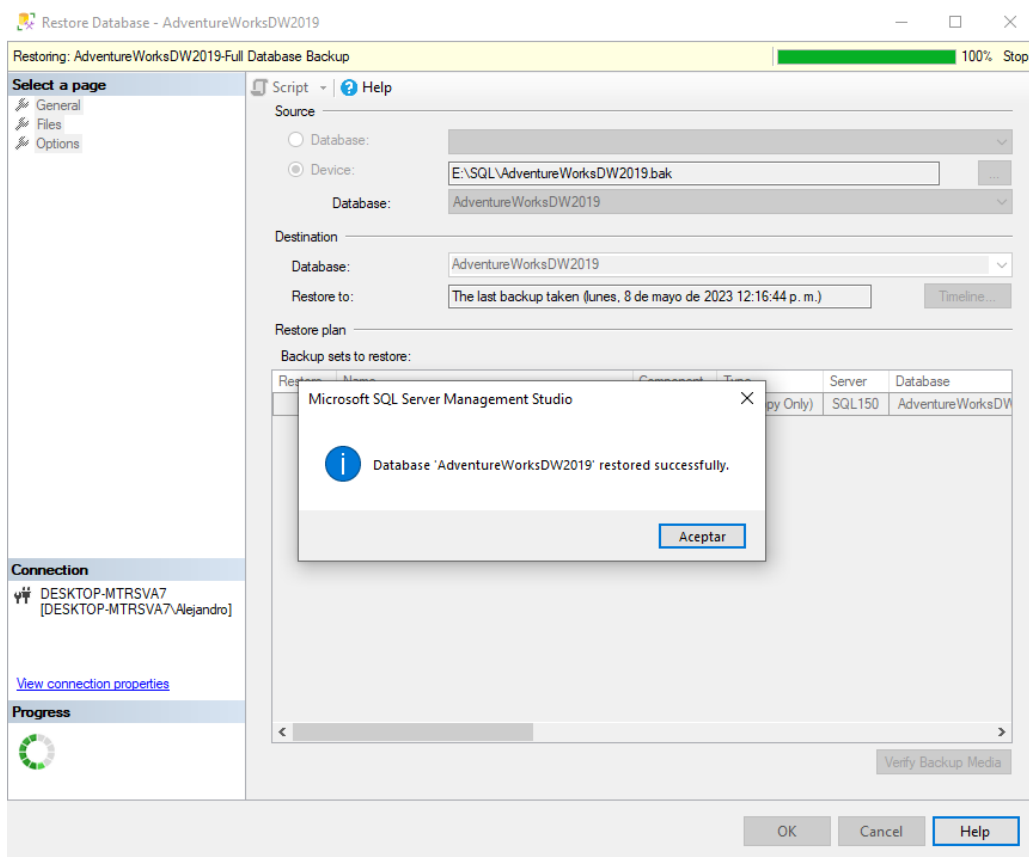
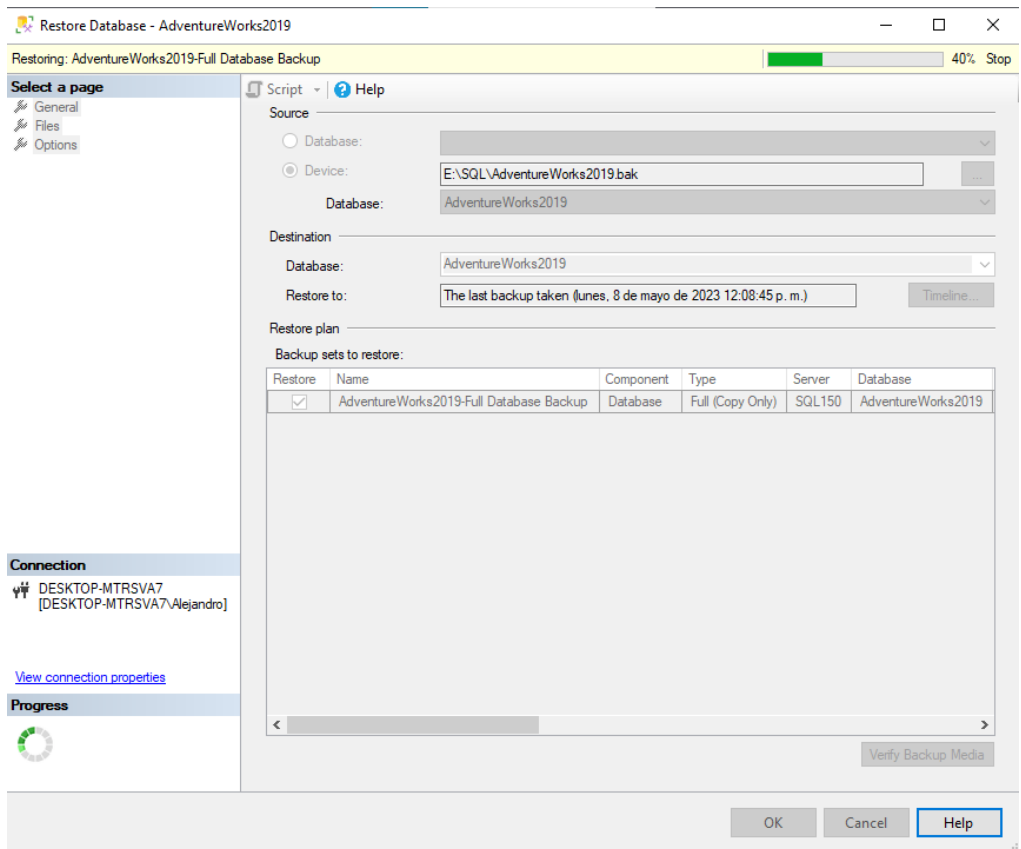
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OLTP	Data Warehouse	Lightweight
AdventureWorks2022.bak	AdventureWorksDW2022.bak	AdventureWorksLT2022.bak

2. Cargar los respaldos en SQL Management Studio





- Consultar tablas para verificar por completo que hayamos montado las bases de datos, primero con **AdventureWorks2019**:

The screenshot shows a SQL query window with the following code:

```
-- Seleccionar la base de datos AdventureWorks2019
USE AdventureWorks2019;
GO

-- Ver los empleados y sus cargos
SELECT BusinessEntityID, JobTitle, HireDate
FROM HumanResources.Employee;
GO
```

The results pane displays the following data:

	BusinessEntityID	JobTitle	HireDate
1	1	Chief Executive Officer	2009-01-14
2	2	Vice President of Engineering	2008-01-31
3	3	Engineering Manager	2007-11-11
4	4	Senior Tool Designer	2007-12-05
5	5	Design Engineer	2008-01-06
6	6	Design Engineer	2008-01-24
7	7	Research and Developmen...	2009-02-08
8	8	Research and Developmen...	2008-12-29
9	9	Research and Developmen...	2009-01-16
10	10	Research and Developmen...	2009-05-03
11	11	Senior Tool Designer	2010-12-05
12	12	Tool Designer	2007-12-11
13	13	Tool Designer	2010-12-23
14	14	Senior Design Engineer	2010-12-30
15	15	Design Engineer	2011-01-18
16	16	Marketing Manager	2007-12-20
17	17	Marketing Assistant	2007-01-26
18	18	Marketing Specialist	2011-02-07

AdventureWorksDW2019:

The screenshot shows a SQL query window with the following code:

```
-- Seleccionar la base de datos AdventureWorksDW2019
USE AdventureWorksDW2019;
GO

-- Ver algunos clientes del data warehouse
SELECT TOP 10 CustomerKey, GeographyKey, Gender, YearlyIncome
FROM dbo.DimCustomer;
GO
```

The results pane displays the following data:

	CustomerKey	GeographyKey	Gender	YearlyIncome
1	11000	26	M	90000.00
2	11001	37	M	60000.00
3	11002	31	M	60000.00
4	11003	11	F	70000.00
5	11004	19	F	80000.00
6	11005	22	M	70000.00
7	11006	8	F	70000.00
8	11007	40	M	60000.00
9	11008	32	F	60000.00
10	11009	25	M	70000.00

Tarea 2: Crear un usuario de solo lectura y verificar que funcionen sus permisos.

- Se crea el login.
- Se crea el usuario.
- Se le otorgan los permisos de sólo lectura.

```

T2AdventureWorks.s...s2019 (Lector (59))  X T1AdventureWorks.s...A7Alejandro (51))
--Creación de usuarios a nivel servidor
USE [master];
GO

--Creación login
CREATE LOGIN Lector WITH PASSWORD = '123';
GO

--Creación de usuarios en la base de datos
USE AdventureWorks2019;
GO

--Creación del usuario de Solo Lectura
CREATE USER AdventureLector FOR LOGIN Lector;
-- Asignar rol de solo lectura (db_datareader)
EXEC sp_addrolemember 'db_datareader', 'AdventureLector';
GO

```

4. Se hacen las verificaciones de los permisos.

```

USE AdventureWorks2019;
GO
--Pruebas de verificación
SELECT TOP 5 BusinessEntityID, FirstName, LastName -- Permitido
FROM Person.Person;
GO

ALTER TABLE Person.Person ADD prueba_columna INT; -- No Permitido
GO

```

100 %

Results Messages

	BusinessEntityID	FirstName	LastName
1	285	Syed	Abbas
2	293	Catherine	Abel
3	295	Kim	Abercrombie
4	2170	Kim	Abercrombie
5	38	Kim	Abercrombie

```

ALTER TABLE Person.Person ADD prueba_columna INT; -- No Permitido
GO

```

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Messages

Msg 1088, Level 16, State 13, Line 26
 Cannot find the object "Person" because it does not exist or you do not have permissions.

Completion time: 2025-06-01T15:15:16.2269017-06:00