SQL Server Install

23 June 2023

14:02

<a href="https://www.microsoft.com/en-us/download/details.aspx?id=104781">Download Microsoft® SQL Server® 2022 Express from Official Microsoft Download Center</a>

Machine generated alternative text:
Microsoft' SQL Server@ 2022 Express 
Important! Selecting a language below will dynamically change the complete page content to that language. 
Select Language: 
English 
Microsoft@ SQL Server@ 2022 Express is a powerful and reliable free data 
management system that delivers a rich and reliable data store for lightweight Web 
Sites and desktop applications. 
Details 
System Requirements 
+ Install Instructions 
Additional Information 

Machine generated alternative text:
SQL Server 2022 
Express Edition 
Select an installation type: 
Cop' 
top 
Iloa 
top 
Iloa 
Basic 
Select Basic installation type to 
install the SQL Server Database 
Engine feature with default 
configuration. 
Custom 
Select Custom installation type 
to step through the SQL Server 
installation wizard and choose 
what you want to install. This 
installation type is detailed and 
takes longer than running the 
Basic install. 
Download Media 
Download SQL Server setup files 
now and install them later on a 
machine of your choice. 
SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve 
the product To learn rnore about data processing privacy controls, and to tum off the collection of this information after installation, see the 
documentation 
162211.5693.3 

After completion install SSMS

Machine generated alternative text:
SQL Server 2022 
Express Edition 
Installation has completed successfully! 
INSTANCE NAME 
SQL ADMINISTRATORS 
DESKTOP-BT4131D\LabUser 
FEATURES INSTALLED 
SQLENGNE 
VERSION 
RTM 
CONNECTION STRING 
Server = T 
SQL SERVER INSTALL LOG FOLDER 
INSTALLATION MEDIA FOLDER 
INSTALLATION RESOURCES FOLDER 
Files\Microsoft SQL 
Connect NOW 
Customize 
Install SSMS 
Close 
162211.5693.3 

Takes you to a link…

Machine generated alternative text:
SQL Server Management Studio (SSMS) is an integrated environment for managing any SQ 
infrastructure, from SQL Server to Azure SQL Database. SSMS provides tools to configure, 
and administer instances of SQL Server and databases. Use SSMS to deploy, monitor, and u 
the data-tier components used by your applications and build queries and scripts. 
Use SSMS to query, design, and manage your databases and data warehouses, wherever th 
your local computer or in the cloud. 
Download SSMS 
Free Download for SQL Server Management Studio (SSMS) 19.1 
SSMS 19.1 is the latest general availability (GA) version. If you have a preview version of SSN 
installed, you should uninstall it before installing SSMS 19.1. If you have SSMS 19.x installed 
SSMS 19.1 upgrades it to 19.1. 
Release number: 19.1 
Build number. 19.1.56.0 
• Release date: May 24, 2023 
By using SQL Server Management Studio, you agree to its license terms and privacy statem 
you have comments or suggestions or want to report issues, the best way to contact the SS 
is at SQL Server user feedback? . 

Machine generated alternative text:
)S 
ing 
Downloads 
SSMS-Setup-ENU.exe 
7.1 min left 

Machine generated alternative text:
RELEASE 19.1 
Microsoft SQL Server Management Studio 
with Azure Data Studio 
Welcome. Click "Install" to begin. 
Location: 
Files SQL Server Management Studio 19 
Change 
By clicking the "Install" button, I acknowledge that I accept the Privacy Statement and 
the License Terms for SQL Server Management Studio and Azure Data Studio 
SQL Server Management Studio transmits information about your installation experience, as well as other 
usage and performance dau to Microsoft to help improve the product. To leam more about data processing 
and privacy controls, and to turn off the collection of this information after installation, see the 
documentation 

Add Short cut to desktop

C:\Program Files (x86)\Microsoft SQL Server Management Studio 19\Common7\IDE\Ssms.exe

Rename shortcut so learners recognise it

Machine generated alternative text:
Sq! Server 
nagem 

Download Adventureworks sample databases

<a href="https://learn.microsoft.com/en-us/sql/samples/adventureworks-install-configure?view=sql-server-ver16&amp;tabs=ssms">AdventureWorks sample databases - SQL Server | Microsoft Learn</a>

Machine generated alternative text:
Learn / SQL / 
AdventureWorks sample databases 
Article • 05/16/2023 • 13 contributors 
In this article 
Prerequisites 
Download backup files 
Restore to SQL Server 

Machine generated alternative text:
If you're not sure what you need, start with the OLTP version that matches your SQL Server version. 
OLTP 
AdventureWorks2022.bakt.å 
Data Warehouse 
AdventureWorksDW2022.bahff 
Lightweight 
AdventureWorksLT2022.bak 

Move them to a folder on the c: drive such as

C:\SampleDataFiles

Machine generated alternative text:
CountryRegion 
@Retail Analysis Sample PBIX 
SeattleHomePrices 
AdventureWorksLT2022.bak 
AdventureWorks2022.bak 
AdventureW bak 
19/07/2021 17:17 
19/07/2021 17:17 
21/07/2021 13:12 
23/06/2023 14:32 
23/06/2023 14:34 
23/06/2023 1433 

Then in SQL Server Management Studio do the following for each of these files

Machine generated alternative text:
Object Explorer 
Connect • 
S DESKTOP-BT4131D\SQLEXPRESS (SQL! 
Cataba 
Secuö 
Server 
Repli 
Mana 
E] XEvent 
New Database... 
Attach... 
Restore Database... 
Restore Files and Filegroups... 
Deploy Data-tier Application... 
Import Data-tier Application... 
Start PowerShell 
Reports 
Refresh 

Choose Device Radio Button then the three dots button on right to get this

Machine generated alternative text:
Microsoft SQL Server Management Studio 
File Edit View Tools Window Help 
D New Query 
0-0 
Execute 
Object Explorer 
Connect • 
DESKTOP-BT4131D\SQLEXPRESS (SQL 
Quic 
x 
Restore Database - 
No backupset selected to be restored. 
a 
General 
files 
Options 
Databases 
System Databases 
Database Snapshots 
Security 
Server Objects 
Replication 
Management 
XEvent Profiler 
Script • ) O Help 
C) Database: 
@ Device: 
Database: 
Re±ore to : 
Select backup devices 
Specfy the backup meda and its location foryour restore operation. 
media type: 
Backup media: 
x 
Type 
Postion 
LSN 
Last LSN 
Checkpoht LS N 
Verfy Backup Media 
Cancel 
Help 

Add the file we just moved one file at a time as follows

Machine generated alternative text:
Locate Backup File 
Backup Re locdion: 
- 93etCurrert 
Recycle Bh 
Config.Msi 
- DESKTOP-BT4131D\SQLEXPRESS 
C : SampleDataRes 
x 
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Program Res (x86) 
Program 
Recovery 
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athlete everts 
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SQL2022 
System Voltme Hormon 
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AdventureWorksDW2022bak 
AdventueWorksLT2022bak 

Machine generated alternative text:
Re±ore to : 
Select backup devices 
Specfy the backup meda and its location foryour restore t»e-aticn. 
media type: 
media: 
C: SampleDataFies4dventureWotks2022bak 
x 

Machine generated alternative text:
Script • O Help 
C) Database: 
@ Device: 
Däabase: 
Database: 
Re±ore to : 
Restore plan 
Backup sets to restore: 
Restore Name 
C: bak 
Adventure Works2022 
AdventureW01ks2022 
AdvertureWotks2022-FLAl Database Backw 
Component 
Ddabase 
Type 
FLAI Copy Oriy) 
DESKTOPQOERUT 
Adverture 
Verify Backup Media 
Cancel 
Help 

Machine generated alternative text:
Restore plan 
Backup sets to restore: 
Rest 
Microsoft SQL Server Management Studio 
O 
Database 'AdventureWorks2022 restored successfully. 
OK 
X 
only) 
Server 
DESKTOP- 

Repeat for the other two backup files doing the same steps again

Machine generated alternative text:
Microsoft SQL Server Management Studio 
O 
Database 'AdventureWorksDW2022' restored successfully. 
OK 
X 
Only) 

Machine generated alternative text:
Microsoft SQL Server Management Studio 
O 
Database 'AdventureWorksLT2022' restored successfully. 
OK 

Check they are installed OK

Machine generated alternative text:
DESKTOP-BT4131D\SQLEXPRESS 
Databases 
System Databases 
Database Snapshots 
AdventureWorks2022 
AdventureWorksDW2022 
— AdventureWorksLT2D22 
Security 

Attach the database from the SQL Fundamentals class for the DT track

Machine generated alternative text:
-Publ.mdf 
Publ_log.ldf 
A few seconds ago 
A few seconds ago 
Nigel Bevan 
Nigel Bevan 
1.75 MB 
Shared 
Shared 

Use Attach this time. Make sure they are moved to the C:\SampleDataFiles folder

Machine generated alternative text:
This PC Local Disk SampleDataFiles 
Name 
a 
ath lete_events 
COVID 
Happiness 
IMF_Finance 
PostgreSQL 
AdventureWorks2022.bak 
AdventureWorksDW2022.bak 
AdventureW orksLT2022. bak 
Contoso Sales Sample for Power Bl Deskt.„ 
CountryRegion 
Publ 
publ_log 
Retail Analysis Sample PBIX 
@SeattleHomePrices 
Search Sar 
Date modified 
19/06/2023 17:12 
19/07/2021 17:17 
19/07/2021 17:17 
22/07/2021 09:14 
19/06/2023 17:12 
23/06/2023 13:52 
23/06/2023 14:34 
23/06/2023 14:33 
23/06/2023 1432 
19/07/2021 17:17 
19/07/2021 17:17 
23/06/2023 14:44 
23/06/2023 14:44 
19/07/2021 17:17 
21/07/2021 13:12 
Type 
File folder 
File folder 
File folder 
File folder 
File folder 
File folder 
BAK File 
BAK File 
BAK File 
Microsoft power 
Microsoft Excel C... 
SQL Server Databa... 
SQL Sewer Databa... 
Microsoft power 
Microsoft Excel C... 
Size 
204,920 KB 
99,448 KB 
4312 KB 
g 680 KB 
20 KB 
5,120KB 
1,792 KB 
13,302 KB 
86 KB 

Machine generated alternative text:
View 
Project 
Table Designer Tools 
Window Hel 
Attach Databases 
New Query 
Select a 
General 
DESKTOP-BT4131D\S...s2022 
x 
Script • O Help 
Databases to ±tach: 
MDF file Location 
OK 
Database Name 
TOP-BT4131D\SQLEXPRESS (SQL S 
atabases 
System Databases 
i Database Snapshots 
AdventureWorks2022 
i AdventureWorksDW Locate Database Files - DESKTOP-BT4131D\SQLEXPRESS 
x 
AdventureWorksLT2022 
ecurity 
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lanagement 
Event Profiler 
Database Fie location: 
Windows Mail 
C: Data files 
Windows Media Player 
Windows Multimedia Pläform 
Windows NT 
Windows Photo Mewer 
Windows Portable Devices 
Windows Security 
Windows Sidebar 
WndowsPowerSheI 
Program Res (x86) 
Program 
Recovery 
SQL2022 
Sy<an Voltme Hormon 
Users 
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IMF 
IMF Fnance 
PostgreSQL 
Pub 1 mdf 
Re Type 
Remove 
Cur-ent Re 

Machine generated alternative text:
Attach Databases 
Select a 
DESKTOP8T4131D\SQLEXP 
DESKTOP-BT4131D\LabUser 
Mew connection properties 
Script • O Hap 
Databases to ±tach: 
MDF File Location 
'Publ" database 
Original He Name 
Publmcf 
Pub 1 _log .1df 
o 
Database Name 
x 
Pub 1 
file Type 
Log 
Reno ve 
Current Fle path 

Machine generated alternative text:
Microsoft SQL Server Management Studio 
Attach database failed for Server . (Mcrosoft.SdServer.Smo) 
Additional information: 
An excepticn occurred while executhg a statement or batch. 
Cvficrosoft.SdServer. Connectionlnfo) 
Unable to open tie physical file Operating system error 5: 
"5(Access s dened.)•. 
CREATE DATABASE failed. Some He nan-tes Ested could not be created. Check related 
Server, Error: 5120) 
DES Help Copy message Show details 
DESKTOP-BT4131D\LabUser 
'view connection properties 
x 
ath 

So change for both files

Machine generated alternative text:
Copy path 
Paste shortcut 
Move 
to • 
x 
Copy Delete 
to • 
Organize 
SampleDataFiles 
New item • 
Publ Properties 
General Sea-itty Detaas Previous Vaü•ns 
Cbject name: 1 _mcf 
Group or us« names : 
OWNER RIGHTS 
SR Administrators (DESKTOP-BT4131 
MSSQLSSQLEXPRESS 
To change permissions, click Edit. 
Open • 
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Contoso Sales Sample for Power Bl Des 
CountryRegion 
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publ_log 
Retail Analysis Sample PBIX 
SeattleHomePrices 
5.00 MB 
For special permissons or advanced *tings. 
cick Advanced. 
OK 

Repeat attach and you should see

Machine generated alternative text:
ObJ ect 
Explorer 
Connect • 
DESKTOP-BT4131D\SQLEXPRESS (S 
Databases 
DESKTOP-3T4131D\SQLEXPRESS (SC 
E] 
Database Snapshots 
AdventureWorks2022 
AdventureworksDW2022 
AdventureWorksLT2022 
Publ 
Security 
Server Objects 
Replication 
Management 
XEvent Profiler 

Maybe tidy db files in a sub folder SQL Server DataBases

Add the Power BI PL300 Database TailspinToys2020-US

Machine generated alternative text:
TailspinToys2020-US.bak 
A few seconds ago 
Nigel Bevan 
29.1 MB 
Shared 

Move

Machine generated alternative text:
ThisPC Local Disk(C.•) 
Name 
SampleDataFiles 
SQL Server Databases 
Date modified 
23/06/2023 1434 
23/06/2023 14:33 
23/06/2023 14:32 
23/06/2023 14:49 
23/06/2023 1449 
23/06/2023 1455 
Search 
AdventureW bak 
AdventureWorksDW2022.bak 
AdventureWorksLT2022.bak 
Publ 
publ_log 
C) TailspinToys2020-US.bak 
Type 
BAK File 
BAK File 
BAK File 
SQL Server Databa... 
SQL Server Databa... 
BAK File 
Size 
204920 KB 
99,448 KB 
8312 KB 
5,120KB 
1,792 KB 
29,789 KB 

As before restore backup

Machine generated alternative text:
C) Database: 
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Windows Phcio Viewer 
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Ill' Windows Securty 
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Ill' WndowsAops 
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Program Files (x86) 
Program Däa 
Recovery 
Sample Däa Files 
COVID 
IMF 
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Po#reSQL 
SQL Serv•er DataBases 
file name: TailspjnToys2020-USbak 
AdvertureW0rksDW2022.bak 
AdvertureWorksLT2022b* 
TailspinToys 2020-CIS bag 
Backup Jog) 

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Backup sets to restore: 
Resto 
Microsoft SQL Server Management Studio 
O 
Database TailspinToys2020-lJS restored successfully. 
OK 
X 
ATA* 

Machine generated alternative text:
Object Explorer 
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DESKTOP-BT4131D\SQLEXPRESS (SQL S 
Databases 
Il" System Databases 
Database Snapshots 
AdventureWorks2022 
AdventureworksDW2022 
AdventureWorksLT2022 
Publ 
— TailspinToys2D2D-US 
Security 
Server Objects 
Replication 
Management 
XEvent Profiler 