

# Installing a Database Engine and Code Editor Locally or in the Cloud

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# Relational DBMS Comparisons

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	SQL Express	SQL Developer	MySQL Community	SQLite	Access
Max Size	10 GB	524 PB	2 TB (depends on OS)	140 TB	2 GB
Cost	Free	Free (non-production)	Free (GNU GPL license)	Free (public domain)	\$35 (Access 2016)
Max RAM	1 GB	Unlimited	Unlimited	Unlimited	Unlimited
Max CPU	4 cores	Unlimited	Unlimited	1 core	1 core
SQL Language	TSQL	TSQL	SQL	SQL	Access SQL
OS Support	Windows	Windows	Linux, Unix, Mac, Windows	Android, iOS, Linux, Unix, Mac, Windows, Others	Windows



# Production Environment

A production environment is defined as an environment that is accessed by end-users of an application (such as an Internet website) and that is used for more than gathering feedback or acceptance testing of that application.



# Visual Studio Free Editions Comparisons

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# Visual Studio Free Editions

## Visual Studio Community

Free

Windows, Mac

IntelliSense

Debugging

Ready out of the box

Integrated development environment

## Visual Studio Code

Free

Windows, Linux, Mac

IntelliSense

Debugging

Needs extensions, command line use

Code editor



# Demo



Install SQL Express

Install Visual Studio

Create an Azure virtual machine



# Create a Virtual Machine in Azure



Credit card required for identity verification



Free credits



Pay only for use





# Summary



**Comparison of relational databases**

**Comparison of Visual Studio editions**

**Install SQL Express and Visual Studio**

