

INSTALL SQL SERVER

1. `wget -qO- https://packages.microsoft.com/keys/microsoft.asc | sudo apt-key add -`
2. `sudo add-apt-repository "$(wget -qO- https://packages.microsoft.com/config/ubuntu/20.04/mssql-server-2019.list)"`
3. `sudo apt-get update`

```
tika@tika-VirtualBox:~$ wget -qO- https://packages.microsoft.com/keys/microsoft
.asc | sudo apt-key add -
[sudo] password for tika:
OK
tika@tika-VirtualBox:~$ sudo add-apt-repository "$(wget -qO- https://packages.m
icrosoft.com/config/ubuntu/20.04/mssql-server-2019.list)"
Hit:1 https://packages.microsoft.com/ubuntu/20.04/mssql-server-2019 focal InRel
ease
Hit:2 https://packages.microsoft.com/ubuntu/16.04/mssql-server-2019 xenial InRe
lease
Hit:3 https://packages.microsoft.com/ubuntu/20.04/prod focal InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:5 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:6 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:7 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:8 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repositor
y 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't suppor
t architecture 'i386'
tika@tika-VirtualBox:~$ sudo apt-get update
Hit:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
Hit:5 https://packages.microsoft.com/ubuntu/20.04/mssql-server-2019 focal InRel
ease
Hit:6 https://packages.microsoft.com/ubuntu/16.04/mssql-server-2019 xenial InRe
lease
```

4. `sudo apt-get install -y mssql-server`
5. `sudo /opt/mssql/bin/mssql-conf setup`
6. `systemctl status mssql-server --no-pager`

```
tika@tika-VirtualBox:~$ sudo apt-get install -y mssql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
mssql-server is already the newest version (15.0.4198.2-10).
0 upgraded, 0 newly installed, 0 to remove and 568 not upgraded.
tika@tika-VirtualBox:~$ sudo /opt/mssql/bin/mssql-conf setup
An instance of SQL Server is running. Please stop the SQL Server service
using the following command

    sudo systemctl stop mssql-server
tika@tika-VirtualBox:~$ systemctl status mssql-server --no-pager
● mssql-server.service - Microsoft SQL Server Database Engine
   Loaded: loaded (/lib/systemd/system/mssql-server.service; enabled; vendor
  preset: enabled)
   Active: active (running) since Tue 2022-02-15 15:33:43 WIB; 6h left
     Docs: https://docs.microsoft.com/en-us/sql/linux
    Main PID: 773 (sqlservr)
      Tasks: 134
     Memory: 563.3M
    CGroup: /system.slice/mssql-server.service
            └─ 773 /opt/mssql/bin/sqlservr
               └─ 1504 /opt/mssql/bin/sqlservr

Feb 15 08:38:00 tika-VirtualBox sqlservr[1504]: [48B blob data]
Feb 15 08:38:02 tika-VirtualBox sqlservr[1504]: [96B blob data]
Feb 15 08:38:02 tika-VirtualBox sqlservr[1504]: [66B blob data]
Feb 15 08:38:07 tika-VirtualBox sqlservr[1504]: [75B blob data]
Feb 15 08:38:07 tika-VirtualBox sqlservr[1504]: [96B blob data]
Feb 15 08:38:07 tika-VirtualBox sqlservr[1504]: [100B blob data]
```

INSTALL MSSQL-TOOLS

1. sudo apt-get update
2. sudo apt install curl
3. curl https://packages.microsoft.com/keys/microsoft.asc | sudo apt-key add -

```
tika@tika-VirtualBox:~$ sudo apt-get update
Hit:1 https://packages.microsoft.com/ubuntu/20.04/mssql-server-2019 focal InRelease
Hit:2 https://packages.microsoft.com/ubuntu/16.04/mssql-server-2019 xenial InRelease
Hit:3 https://packages.microsoft.com/ubuntu/20.04/prod focal InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:5 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:6 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:7 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:8 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't support architecture 'i386'
tika@tika-VirtualBox:~$ sudo apt install curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
curl is already the newest version (7.68.0-1ubuntu2.7).
0 upgraded, 0 newly installed, 0 to remove and 568 not upgraded.
tika@tika-VirtualBox:~$ curl https://packages.microsoft.com/keys/microsoft.asc | sudo apt-key add -
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  983    100  983    0     0   2899      0 --:--:-- --:--:-- --:--:-- 2908
OK
```

4. curl https://packages.microsoft.com/config/ubuntu/20.04/prod.list | sudo tee /etc/apt/sources.list.d/msprod.list
5. sudo apt-get update
6. sudo apt-get install mssql-tools unixodbc-dev

```
tika@tika-VirtualBox:~$ curl https://packages.microsoft.com/config/ubuntu/20.04
/prod.list | sudo tee /etc/apt/sources.list.d/msprod.list
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100    89   100    89    0     0    494      0 --:--:-- --:--:-- --:--:--    494
deb [arch=amd64,armhf,arm64] https://packages.microsoft.com/ubuntu/20.04/prod fo
ocal main
tika@tika-VirtualBox:~$ sudo apt-get update
Hit:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 https://packages.microsoft.com/ubuntu/20.04/mssql-server-2019 focal InRel
ease
Hit:5 https://packages.microsoft.com/ubuntu/16.04/mssql-server-2019 xenial InRe
lease
Hit:6 https://packages.microsoft.com/ubuntu/20.04/prod focal InRelease
Hit:7 http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease
Hit:8 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repositor
y 'http://apt.postgresql.org/pub/repos/apt focal-pgdg InRelease' doesn't suppor
t architecture 'i386'
tika@tika-VirtualBox:~$ sudo apt-get install mssql-tools unixodbc-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

7. echo 'export PATH="\$PATH:/opt/mssql-tools/bin"' >> ~/.bash_profile
8. echo 'export PATH="\$PATH:/opt/mssql-tools/bin"' >> ~/.bashrc
9. source ~/.bashrc

```
tika@tika-VirtualBox:~$ echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.b
ash_profile
tika@tika-VirtualBox:~$ echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.b
ashrc
tika@tika-VirtualBox:~$ source ~/.bashrc
```

LOGIN & CREATE DATABASE SQL SERVER

1. sqlcmd -S localhost -U SA -P 'tikalamp16.'

-----Create database-----

2. CREATE DATABASE coba
3. SELECT name from sys.databases
4. Go

```
tika@tika-VirtualBox:~$ sqlcmd -S localhost -U SA -P 'tikalamp16.'
1> CREATE DATABASE coba
2> SELECT Name from sys.Databases
3> go
Name
-----
master
tempdb
model
msdb
toko
coba
belajar

(7 rows affected)
1> 
```

-----Create Table-----

5. use coba
6. create table belajar(id INT PRIMARY KEY, nama VARCHAR (50), harga INT)
7. go

-----Insert Data-----

8. insert into belajar values (1, 'tika', 10000)
9. go

```

1> use coba
2> create table belajar(id INT PRIMARY KEY, nama VARCHAR(50), harga INT)
3> go
Changed database context to 'coba'.
1> insert into belajar values (1, tika, 10000)
2> go
Msg 207, Level 16, State 1, Server tika-VirtualBox, Line 1
Invalid column name 'tika'.
1> insert into belajar values (1, 'tika', 10000)
2> go

(1 rows affected)
1> select * from belajar
2> go

```

id	nama	harga
1	tika	10000

```

(1 rows affected)
1>

```

-----Insert Data Looping-----

```

10. DECLARE @Coba INT;
11. SET @Coba = 1;
12. WHILE @Coba <= 10
13. begin
14. insert into belajar values (@Coba, 'belajar-'+CAST(@Coba as VARCHAR),
    10000+@Coba)
15. SET @Coba = @Coba + 1
16. END
17. GO

```

```

Changed database context to 'coba'.
1> declare @Coba INT;
2> SET @Coba = 1;
3> WHILE @Coba <= 10
4> begin
5>   ntto belajarr values (@Coba, 'belajar-'+CAST(@Coba as VARCHAR), 10000+@Coba)
6>   set @Coba = @Coba + 1
7> end
8> go

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

```

-----Menampilkan Data-----

18. SELECT * FROM belajarr

19. Go

```

1> select * from belajarr
2> go

```

id	nama	harga
1	belajar-1	10001
2	belajar-2	10002
3	belajar-3	10003
4	belajar-4	10004
5	belajar-5	10005
6	belajar-6	10006
7	belajar-7	10007
8	belajar-8	10008
9	belajar-9	10009
10	belajar-10	10010

```

(10 rows affected)

```

Menghapus Database & Tabel

-----Hapus Database-----

Pastikan database yang akan di hapus sedang tidak di gunakan

1. drop database nama database
2. go

-----Hapus Tabel-----

1. drop table nama table
2. go

Truncate Tabel

1. truncate tabel nama tabel
2. go

PERBEDAAN DROP DAN TRUNCATE

Drop == menghapus semua data dan struktur tabel/database

Truncate == hanya menghapus data yang ada di dalamnya