Practical : 1

Aim :

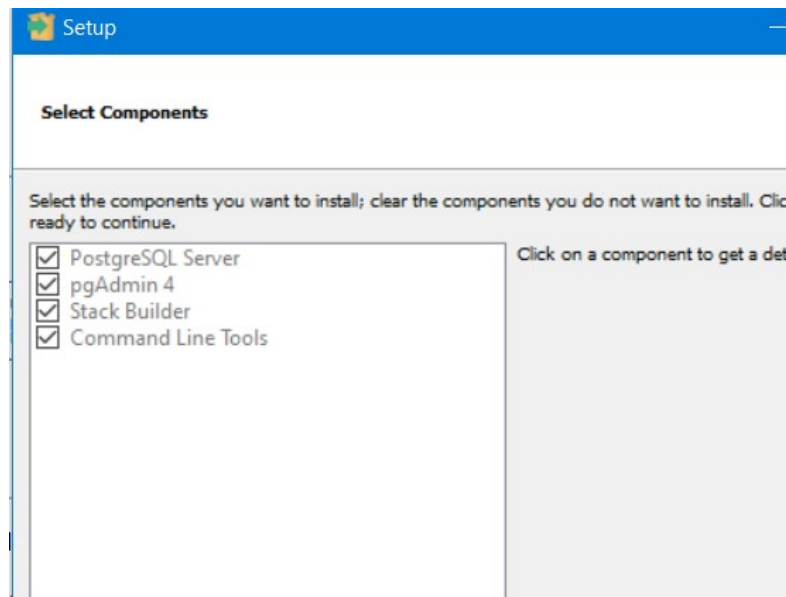**a) Learn to install PostgreSql.**

Ans.

Step 1 : Go to postgresSql download webpage and select the version based on your requirements.

Step 2 : After selecting the version, Download the installer for that particular system.

Step 3 : Follow the steps mentioned in install and click next.

Step 4 : Select the components required and click next and do as the installer says.

Step 5 : After the installer is finished installing the software. Goto start menu and open **pgadmin4** and PostgresSql will start on localhost.

b) Compare different Databases such as PostgreSQL, Oracle, MySql and Maria DB.

Ans.

- PostgresSQL

Advantages	Disadvantages
Open source	Not avaiable on all hosts by default
Highly expandable	Expandable documentation only available in English
Largeley compliant with SQL standard	Comparatively low reading speed
Possible to process complex data types	
Flexible full text search	
Creation of own functions, triggers and datatypes etc	
Good language support	
Supports JSON	
Cross Platform	

- Oracle

Advantages	Disadvantages
Portability	Very expensive
Market presence	Complexity
Version changed	Compatibility
Back and recovery	Regular maintenence
Performance	

- MySQL

Advantages	Disadvantages
Easy to work with	Known limitations
Feature rich	Reliability issues
Secure	Stagnated development
Scalable and powerful	
Speedy	

- MariaDB

Advantages	Disadvantages
Fastest performance	Select queries are slower
Better compression	No replication from normal MYSQL server
Flexible storage options	No support for GROUP BY on disk
Machine learning integrations	No MySQL protocol support
MySQL frontend	
Windows Functions suppport	