1, What is or data base? What are the different.

types of databases?

A database is a structured collection of data stored electronically for easy oriens and management.

relational (Eg My Dayl) - storms data

NO SQL (Eg MON go DB) - handles unstructured data

In memory object oriented and distributed for

speed, object storage, and large bale systems

peed, object storage, and large bale systems

what is relational database of how is different

prom man - velational database of

A relational database Stones data in structure tables with you and columns, using Squite range

It enforce relationship between table using keys

Non-velational database (NO SQL) store data in flouble formato like documents, key value pairs or graphs

Relational database are sideal for structured data and complex quiries.

Non Relational ones are better for unstructured data and horizontily scalaberty

3, What is SQL? What one Major components

SQL - Structured Query longuage

9t is standard longuage used to monage

and manipulate relational data basis

Components are:

DDL > Data definition Longuage (Eg, create, Alter)

DML > Data Manipultion Longuage (Eg Select, Insert)

up date, delete)

DCL & Tr1 -

DCL & TCL > For controlling a coest and Transaction (Eq) (Want, Commit

4. What are the different types of SQL Commands?
Suplain briefly SQL Commands are based on their purpose in database operation DDL (data definition longunge) - define database structuro Eg - CREATE, ALTER, DROP DML (data Manspulation language)-Monge data miside EJ:- SELECT, INSERT, UPDATE, DELETE DCL - (data control longuage) - control user access (Eg) GRANT, REVOKE TCL - (transaction control longuage) - Mange transaction (Eg) COMMIT, ROLLBACK, SAUE POINT

5, What is the yole of Squ in DBMS The vole of SQL in a DBMS is act as the language for interacting with a databoxes It allow users to create, read, update and delete date (CRUD operation) E how do you install and set up SQL on system Donnload My Sal installer Run the intaller - Install required components it installs My Sail somer, work beach, Shell and other toels - Confrégure My SQL server - choose port (default 3306) - set root passivord - choose puthentiation prethol Fuish & start service

J. What is the System for Creating detabase and Falsled in SQL?

CREATE DATABASE detable-More;

CREATE DATABASE ON-BASE ITAM

CREATE TABLE table nome (

Column 1 data type contations)

Column 2 data type Constraints)

8, How do you insert a single and multiple records into table ?

INSERT INTO table_mome (column 1, columnz.)
Value 1, value 2, ---);

INSERT 1000 table- none [colum1, colum2.]
Values

(value 1, value 2, . . .) (value 3, value 4, . . .) 9, What one difference between DDL, DML, DCZ
TCL Commas

Commend DDL (data definition Longuege) purpose defines or changes structure Example CREATE, ALTER, DROP Affects
date or structure

Structure

DML Codata prinfultion longuage

handles data inside Tables SELECT INSERT UPDATE DELETE

Dota

DCL Codata control rongungo)

controls access

CARANT REVOKE A CCODS Rights

TCL CTVansaction Control

Language)

ranges Transactions in SQL ROLLBACIE, SAVE POINT Tranction

10) pelot are some common SQL doto types

- here are some common SQL doto Types

Numbric Types:-

VUMBRIC JANG.
1NT
FLOAT
DOUBLE

DECIMAL

STRING TYPES:

CHAR (M)
VARCHAR (M)
TEXT

DATE and TIME light:

DATE

TIME DATE TIME / TIME STAMP

OTHER TYUS:-BOOLEAN) BIT