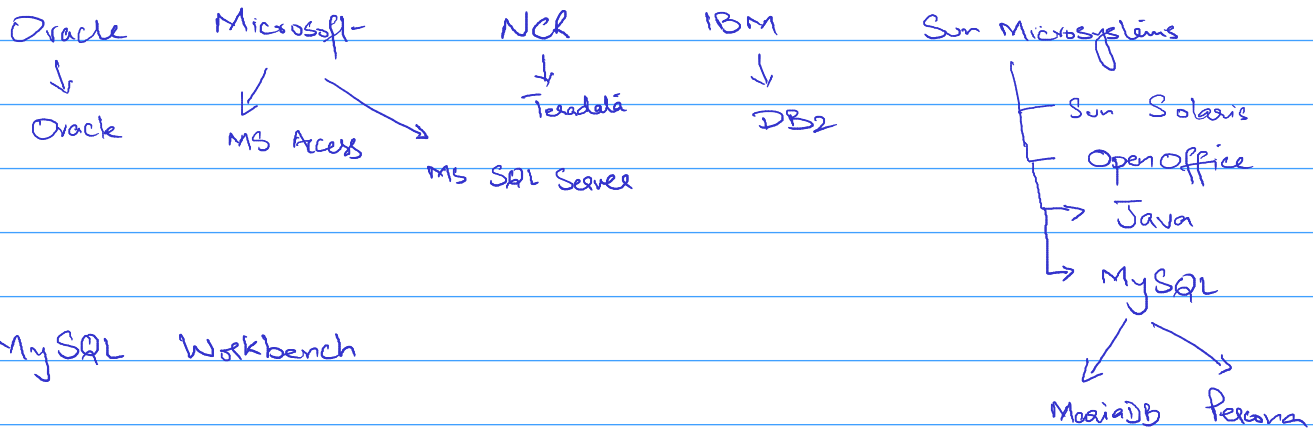


Structured Query Language

ANSI
Sequel / es Query

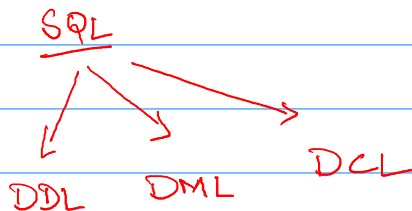


MySQL Workbench

Apache, MySQL, PHP
AMP Stack

Linux	L
Windows	W
Mac	M

XAMP



DDL → Data Definition Language

plays with the structure of Data

- Create
- Use
- Drop
- Alter

DML → Data Manipulation Language

plays with data in the database

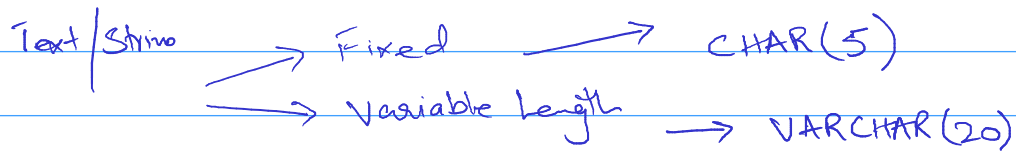
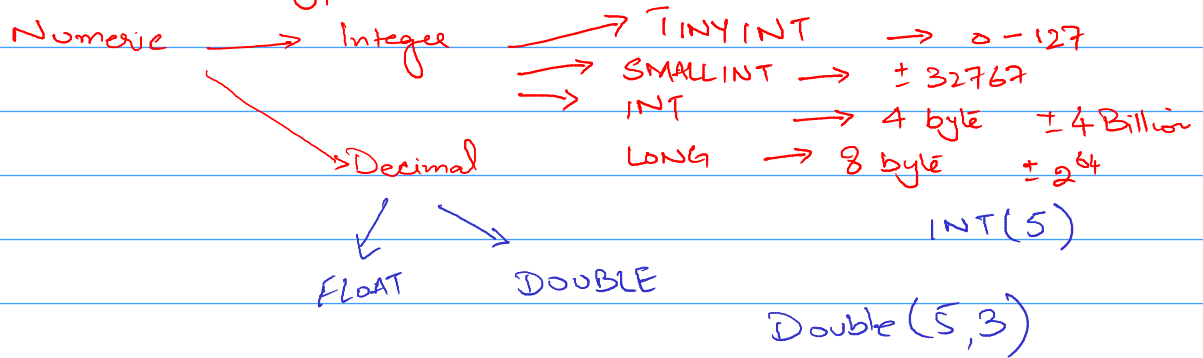
DCL → Data Control Language

plays with the database management

- Backup & Recovery
- Transactions
- Checkpoints
- Access Control
- User Mgmt

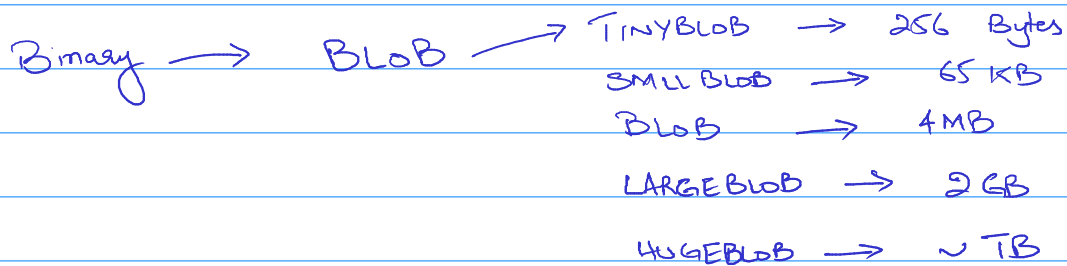
Datatypes in SQL

TINYINT(1)



Bool

Date / Time / DateTime



```
-- which databases are available
```

```
show databases;
```

```
-- create a new database
```

```
create database dbd11;
```

```
-- how to delete a database
```

```
drop database dbd11;
```

```
-- all future commands should be executed against dbd11
```

```
use dbd11;
```

```
-- which tables are available
```

```
show tables;
```

```
SHOW DATABASES;          -- sql is not case sensitive
```

```
-- add a new table in the db
```

```
Create table Student
```

```
(
```

```
    sid INT(5),
```

```
    sName VARCHAR(20),
```

```
    gpa FLOAT(3,2),
```

```
    sex CHAR(1)
```

```
);
```

```
-- what is the structure of table
```

```
describe Student;
```

```
-- discard the table and the data in the table
```

```
DROP table Student;
```

```
CREATE Table Student
```

```
(
```

```
    sid INT(5) NOT NULL UNIQUE,
```

```
    fName varchar(10),
```

```
    lName varchar(10),
```

```
    dob DATE,
```

```
    phone CHAR(11),
```

```
    gpa float(3,2) NOT NULL,
```

```
    Sex CHAR(1) DEFAULT 'M',
```

```
    PRIMARY KEY(SID)
```

```
);
```

-- Adding Data in the Table

```
Insert into Student VALUES(1, 'Ali', 'Ahmad', NULL, '12345678901',  
3.33, NULL);
```

-- Show the data in the table

```
Select * from Student;
```

-- Add data in Sepcific Columns and different ordser

```
Insert Into Student (SID, lName, fName, Phone, GPA, DOB) VALUES  
(2, 'Saleem', 'Farooq', '98765432101', 3.67, '2000-07-18');
```

-- Adding multiple data

```
Insert Into Student (SID, lName, fName, Phone, GPA, DOB, Sex) VALUES  
(3, 'Ali', 'Fatima', '98765432101', 3.67, '2000-07-18', 'F'),  
(4, 'Hakeem', 'Abdul', '96385274109', 3.0, '2001-01-18', 'M'),  
(5, 'Shakir', 'Parveen', '96385274109', 3.0, '2001-01-18', 'F');
```

7th Edition

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Data	→	pg 162	
Help	→	pg 181	