Labsheet -1

1. Write a CREATE TABLE Statement for a table Productinventory with the following Columns:-
   - Product I.D : INT, Primary key
   - Stock level : TINYINT
   - Reorder level : SMALL INT
   - Warehouse Code : MEDIUMINT
   - Supplier ID : BIGINT
   - Cost : DECIMAL (10,2)
   - Discount Rate : FLOAT
   - Weight : DOUBLE
   - Is Active : BIT(1)

```
CREATE TABLE Product Inventory (
  Product ID INT PRIMARY KEY,
    Stock level SMALL INT
    Warehouse Code MEDIUMINT,
    Supplier ID BIGINT,
    Cost DECIMAL (10,2),
    Discount Rate Float,
    Weight DOUBLE,
    Is Active BIT (1)
);
```

2. Create a table Employee Salaries with these Fields

- EmpID: INT, Primary key
- Base Salary: DECIMAL(12,2)
- Tax Rate: FLOAT
- Total Salary: DOUBLE
- Department Code: SMALLINT
- Seniority level: TINYINT
- Is Confirmed: BIT(1)

```
CREATE TABLE Employee Salaries (
    EmpID INT PRIMARY KEY,
    Base Salary DECIMAL(12,2),
    Tax Rate FLOAT,
    Total Salary DOUBLE,
    Department Code SMALLINT,
    Seniority level TINYINT,
    Is Confirmed BIT(1)
);
```

3. Create a table Bank Transactions with these details.

- Transaction ID : BIGINT, Primary key
- Account Number : MEDIUMINT
- Amount : DECIMAL (15, 2)
- Transaction fee : FLOAT
- Total Debit : DOUBLE
- Is Successful : BIT (1)

```
CREATE TABLE Bank Transactions (
    Transaction ID BIGINT PRIMARY KEY,
    Account Number MEDIUMINT,
    Amount DECIMAL (15, 2),
    Transaction Fee FLOAT,
    Total Debit DOUBLE,
    Is Successful BIT (1)
);
```

4. Create a table Sensor Readings that Stores
   - Reading ID: INT, Primary key
   - Sensor ID: SMALLINT
   - Temperature: FLOAT
   - Humidity: FLOAT
   - Battery level: TINYINT
   - Pressure: DOUBLE
   - Is Calibrated: BIT(1)

```
CREATE TABLE Sensor Readings (
  Reading ID INT PRIMARY KEY,
  Sensor ID SMALLINT,
  Temperature FLOAT,
 Battery level TINYINT,
  PRESSURE DOUBLE,
  Is Calibrated BIT(1)
);
```

5. Design a table test Numeric types using every numeric type listed.

- Col1: TINYINT
- Col2: SMALLINT
- Col3: MEDIUMINT
- Col4: INT
- Col5: BIGINT
- Col6: DECIMAL(8,3)
- Col7: FLOAT
- Col8: DOUBLE
- Col9: BIT(4)

```
CREATE TABLE TEST Numeric Types(
    Col1 TINYINT,
    Col2 MEDIUMINT,
    Col3 INT,
    Col5 BIGINT,
    Col6 DECIMAL(8,3),
    Col7 FLOAT,
    Col8 DOUBLE,
    Col9 BIT(4)

);
```

7. Create a table file Storage with these Columns.

- File ID: INT, Primary key
- File Name: VARCHAR(100)
- File Data: LONG BLOB
- File Description: LONG TEXT

```
CREATE TABLE File Storage (
    fileID INT PRIMARY KEY,
    FileName VARCHAR(100),
    file Data LONG BLOB,
    file Description LONG TEXT

);
```

8. Create a table Blob Samples with

- ID : int, Primary key
- Small Data : TINY BLOB
- Normal Data : BLOB
- Medium Data : MEDIUM BLOB
- Large Data : LONG BLOB.

```
CREATE TABLE BLOB Samples (
    ID INT PRIMARY KEY,
    Small IData TINYBLOB
    Normal Data BLOB,
    Medium Data MEDIUM BLOB,
    Large Data LONG BLOB.
);
```

9. Create a table Text Samples with:

- ID: INT, primary key
- Small Note: TINY TEXT
- Message: TEXT
- Review: MEDIUMTEXT
- Article: LONG TEXT

```
CREATE TABLE Text Samples(
    ID INT PRIMARY KEY,
    Small Note TINY TEXT,
    Message TEXT,
    Review MEDIUM TEXT,
    Article LONG TEXT
);
```

10. Create a table user preference with :

- User ID : INT, Primary key
- Theme : ENUM ('light', 'Dark', Auto')
- Subscription : SET ("email", 'SMS' , 'Push', 'Phone')

```
CREATE TABLE USER Prefernces (
  UserID INT PRIMARY KEY,
  Theme ENUM ('light', 'Dark', 'Auto')
    Subscriptions
SET ('Email', 'SMS', 'Push', 'Phone')
);
```

11. Create a table events with the following

- Event ID : INT, Primary key
- Event Name : VARCHAR(100)
- Event Data : DATE
- Start time : TIME
- End time : TIME

```
CREATE TABLE Events(
Event ID INT PRIMARY KEY,
Event Name VARCHAR (100),
Event Date DATE,
Start time TIME,
End time TIME,
);
```

12. Create a table Transactions with:

- Transaction ID : INT, Primary key
- User ID : INT
- Transaction Time DATETIME
- Created On : TIMESTAMP DEFAULT CURRENT_TIMESTAMP

```
CREATE TABLE Transactions (
    Transaction ID INT PRIMAR KEY,
    User ID INT,
    Transaction Time DAIETIME,
    Created On TimeSTAMP DEFAULT
CURRENT_TIMESTAMP
);
```

13. Create a table Employee with:

- EmpID: INT, Primary key
- Name: VARCHAR(50)
- Join Date: DATE
- Record Created: TIMESTAMP
- Joining Year: YEAR.

```
CREATE TABLE Employees(
    Emp ID INT PRIMARY KEY,
    Name VARCHAR(50),
    Join Date DATE,
    Join Date DATE,
    Join Time TIME,
    Record Created TIMESTAMP
    Joining Year YEAR
);
```

14. Create a Table using All Data / Time Types

- ID : INT, Primary key
- DOB : DATE
- Login Time : TIME
- Full timestamp : DATETIME
- Modified At : TIMESTAMP
- Graduation Year : Year.

```
Create TABLE Date Time Samples (
    ID INT PRIMARY KEY,
    DoB Date,
    login Time TIME,
    Full Time Stamp DATE TIME,
    Modified At TIME STAMP,
    Gradution Year YEAR

);
```

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