## SQL –DML COMMANDS

# Create a table named Managers with fields : Manager_Id First_name Last_Name DOB Age ->Use check constraint Last_update Gender Department Salary -> NOT NULL

```
CREATE TABLE Managers (

    Manager_Id INT PRIMARY KEY,

    First_Name VARCHAR(50) NOT NULL,

    Last_Name VARCHAR(50) NOT NULL,

    DOB DATE NOT NULL,

    Age INT CHECK (Age > 18),

    Last_Update DATE,

    Gender CHAR(1),

    Department VARCHAR(50) NOT NULL,

    Salary DECIMAL(10, 2) NOT NULL

);

desc managers;
```

| Field | Type | Null | Key | Default | Extra |
|-------|------|------|-----|---------|-------|
| Manager_Id | int | NO | PRI | NULL | |
| First_Name | varchar(50) | NO | | NULL | |
| Last_Name | varchar(50) | NO | | NULL | |
| DOB | date | NO | | NULL | |
| Age | int | YES | | NULL | |
| Last_Update | date | YES | | NULL | |
| Gender | char(1) | YES | | NULL | |
| Department | varchar(50) | NO | | NULL | |
| Salary | decimal(10,2) | NO | | NULL | |

#### #Insert 10 Rows

```
INSERT INTO Managers (Manager_Id, First_Name, Last_Name, DOB, Age, Last_Update, Gender, Department, Salary) VALUES
```

(1, 'Annie', 'Jacob', '1985-07-15', 39, '2024-01-01', 'M', 'Finance', 45000),

(2, 'Abin', 'Mars', '1990-04-12', 34, '2024-02-15', 'F', 'IT', 28000),

(3, 'Samuel', 'Smith', '1980-03-10', 44, '2024-03-05', 'M', 'HR', 32000),

(4, 'Aaliya, 'Brown', '1988-08-22', 36, '2024-04-18', 'F', 'IT', 26000),

(5, 'John', 'Williams', '1975-09-30', 49, '2024-05-20', 'M', 'Sales', 40000),

(6, 'Dijo', 'Ronson', '1992-05-25', 32, '2024-06-30', 'F', 'Marketing', 35000),

(7, 'Santra', 'James', '1986-11-11', 38, '2024-07-11', 'M', 'IT', 30000),

(8, 'Priya', 'Deen', '1993-12-05', 30, '2024-08-25', 'F', 'HR', 22000),

(9, 'Michael', 'Miller', '1983-01-20', 41, '2024-09-10', 'M', 'Finance', 37000),

(10, 'Linta', 'Wilson', '1987-06-15', 37, '2024-10-01', 'F', 'IT', 27000);

SELECT * FROM managers;

| Manager_Id | First_Name | Last_Name | DOB | Age | Last_Update | Gender | Department | Salary |
|---|---|---|---|---|---|---|---|---|
| 1 | Annie | Jacob | 1985-07-15 | 39 | 2024-01-01 | F | Finance | 45000.00 |
| 2 | Abin | Mars | 1990-04-12 | 34 | 2024-02-15 | M | IT | 28000.00 |
| 3 | Samuel | Smith | 1980-03-10 | 44 | 2024-03-05 | M | HR | 32000.00 |
| 4 | Aaliya | Brown | 1988-08-22 | 36 | 2024-04-18 | F | IT | 26000.00 |
| 5 | John | Williams | 1975-09-30 | 49 | 2024-05-20 | M | Sales | 40000.00 |
| 6 | Dijo | Ronson | 1992-05-25 | 32 | 2024-06-30 | M | Marketing | 35000.00 |
| 7 | Santra | James | 1986-11-11 | 38 | 2024-07-11 | F | IT | 30000.00 |
| 8 | Priya | Deen | 1993-12-05 | 30 | 2024-08-25 | F | HR | 22000.00 |
| 9 | Michael | Miller | 1983-01-20 | 41 | 2024-09-10 | M | Finance | 37000.00 |
| 10 | Linta | Wilson | 1987-06-15 | 37 | 2024-10-01 | F | IT | 27000.00 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

# **# query that retrieves the name and date of birth of the manager with Manager_Id 1:**

SELECT First_Name, Last_Name, DOB

FROM Managers

WHERE Manager_Id = 1;

| First_Name | Last_Name | DOB |
|---|---|---|
| Annie | Jacob | 1985-07-15 |

**#query to display the annual income of all managers:**

SELECT First_Name, Last_Name,Salary,(Salary * 12) AS Annual_Income

FROM Managers;

| First_Name | Last_Name | Salary | Annual_Income |
|---|---|---|---|
| Annie | Jacob | 45000.00 | 540000.00 |
| Abin | Mars | 28000.00 | 336000.00 |
| Samuel | Smith | 32000.00 | 384000.00 |
| Aaliya | Brown | 26000.00 | 312000.00 |
| John | Williams | 40000.00 | 480000.00 |
| Dijo | Ronson | 35000.00 | 420000.00 |
| Santra | James | 30000.00 | 360000.00 |
| Priya | Deen | 22000.00 | 264000.00 |
| Michael | Miller | 37000.00 | 444000.00 |
| Linta | Wilson | 27000.00 | 324000.00 |

**# query to display records of all managers except 'Aaliya':**

SELECT *FROM Managers

WHERE First_Name <> 'Aaliya';

| Manager_Id | First_Name | Last_Name | DOB | Age | Last_Update | Gender | Department | Salary |
|---|---|---|---|---|---|---|---|---|
| 1 | Annie | Jacob | 1985-07-15 | 39 | 2024-01-01 | F | Finance | 45000.00 |
| 2 | Abin | Mars | 1990-04-12 | 34 | 2024-02-15 | M | IT | 28000.00 |
| 3 | Samuel | Smith | 1980-03-10 | 44 | 2024-03-05 | M | HR | 32000.00 |
| 5 | John | Williams | 1975-09-30 | 49 | 2024-05-20 | M | Sales | 40000.00 |
| 6 | Dijo | Ronson | 1992-05-25 | 32 | 2024-06-30 | M | Marketing | 35000.00 |
| 7 | Santra | James | 1986-11-11 | 38 | 2024-07-11 | F | IT | 30000.00 |
| 8 | Priya | Deen | 1993-12-05 | 30 | 2024-08-25 | F | HR | 22000.00 |
| 9 | Michael | Miller | 1983-01-20 | 41 | 2024-09-10 | M | Finance | 37000.00 |
| 10 | Linta | Wilson | 1987-06-15 | 37 | 2024-10-01 | F | IT | 27000.00 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

# query to display details of managers whose department is IT and earns more than 25000 per month.

SELECT *FROM Managers

WHERE Department = 'IT' AND Salary > 25000;

| Manager_Id | First_Name | Last_Name | DOB | Age | Last_Update | Gender | Department | Salary |
|---|---|---|---|---|---|---|---|---|
| 2 | Abin | Mars | 1990-04-12 | 34 | 2024-02-15 | M | IT | 28000.00 |
| 4 | Aaliya | Brown | 1988-08-22 | 36 | 2024-04-18 | F | IT | 26000.00 |
| 7 | Santra | James | 1986-11-11 | 38 | 2024-07-11 | F | IT | 30000.00 |
| 10 | Linta | Wilson | 1987-06-15 | 37 | 2024-10-01 | F | IT | 27000.00 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

# query to display details of managers whose salary is between 10000 and 35000.

SELECT *FROM Managers

WHERE Salary BETWEEN 10000 AND 35000;

| Manager_Id | First_Name | Last_Name | DOB | Age | Last_Update | Gender | Department | Salary |
|---|---|---|---|---|---|---|---|---|
| 2 | Abin | Mars | 1990-04-12 | 34 | 2024-02-15 | M | IT | 28000.00 |
| 3 | Samuel | Smith | 1980-03-10 | 44 | 2024-03-05 | M | HR | 32000.00 |
| 4 | Aaliya | Brown | 1988-08-22 | 36 | 2024-04-18 | F | IT | 26000.00 |
| 6 | Dijo | Ronson | 1992-05-25 | 32 | 2024-06-30 | M | Marketing | 35000.00 |
| 7 | Santra | James | 1986-11-11 | 38 | 2024-07-11 | F | IT | 30000.00 |
| 8 | Priya | Deen | 1993-12-05 | 30 | 2024-08-25 | F | HR | 22000.00 |
| 10 | Linta | Wilson | 1987-06-15 | 37 | 2024-10-01 | F | IT | 27000.00 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |