

SQL ASSIGNMENT 3

```
1  ##Create the Managers Table
2  •  USE Sales;
3  •  CREATE TABLE Managers (
4      Manager_Id INT PRIMARY KEY AUTO_INCREMENT,
5      First_name VARCHAR(255) NOT NULL,
6      Last_Name VARCHAR(255) NOT NULL,
7      DOB DATE NOT NULL,
8      Age INT CHECK (Age >= 0),
9      Last_update TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
10     Gender CHAR(1) CHECK (Gender IN ('M', 'F')),
11     Department VARCHAR(255) NOT NULL,
12     Salary DECIMAL(10, 2) NOT NULL);
13
```

Output				
Action Output				
#	Time	Action	Message	
❌	1 21:13:42	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(2...	Error Code: 1046. No database selected Select the d	
✅	2 21:14:56	USE Sales	0 row(s) affected	
✅	3 21:15:01	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(2...	0 row(s) affected	

```
-- ('Hank', 'Wilson', '1987-05-05', 37, 'M', 'Finance', 35000.00),
21 ('Grace', 'Davis', '1995-01-25', 29, 'F', 'HR', 23000.00),
22 ('Hank', 'Wilson', '1987-05-05', 37, 'M', 'Finance', 35000.00),
23 ('Ivy', 'Thomas', '1983-07-17', 41, 'F', 'Marketing', 34000.00),
24 ('Jack', 'Taylor', '1992-09-29', 31, 'M', 'IT', 22000.00);
25 ##Query to Retrieve Name and DOB of Manager with Manager_Id 1
26 • SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1;
```

result Grid		
First_name	Last_Name	DOB
Alice	Smith	1985-06-15

managers 1 x				
Output				
Action Output				
#	Time	Action	Message	
1	21:13:42	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its r	
2	21:14:56	USE Sales	0 row(s) affected	
3	21:15:01	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(...	0 row(s) affected	
4	21:16:12	INSERT INTO Managers (First_name, Last_Name, DOB, Age, Gender, Department, Salary) VALUES (Alice', 'Smit...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	
5	21:17:11	SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1 LIMIT 0, 1000	1 row(s) returned	

```

2 ('Hank', 'Wilson', '1987-05-05', 37, 'M', 'Finance', 35000.00),
3 ('Ivy', 'Thomas', '1983-07-17', 41, 'F', 'Marketing', 34000.00),
4 ('Jack', 'Taylor', '1992-09-29', 31, 'M', 'IT', 22000.00);
5 ##Query to Retrieve Name and DOB of Manager with Manager_Id 1
6 • SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1;
7 ##Query to Display Annual Income of All Managers
8 • SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

First_name	Last_Name	Annual_Income
Alice	Smith	360000.00
Bob	Johnson	480000.00
Charlie	Brown	336000.00
Diana	Prince	324000.00
Eva	Adams	384000.00
Frank	Miller	312000.00
Grace	Davis	276000.00
Hank	Wilson	420000.00
Ivy	Thomas	408000.00
Jack	Taylor	264000.00

Result 2 x

Output

#	Time	Action	Message
1	21:13:42	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(...	Error Code: 1046. No database selected Select the de
2	21:14:56	USE Sales	0 row(s) affected
3	21:15:01	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR(...	0 row(s) affected
4	21:16:12	INSERT INTO Managers (First_name, Last_Name, DOB, Age, Gender, Department, Salary) VALUES ('Alice', 'Smit...	10 row(s) affected Records: 10 Duplicates: 0 Warnings:
5	21:17:11	SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1 LIMIT 0, 1000	1 row(s) returned
6	21:18:05	SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers LIMIT 0, 1000	10 row(s) returned

Limit to 1000 rows

```

24 ('Jack', 'Taylor', '1992-09-29', 31, 'M', 'IT', 22000.00);
25 ##Query to Retrieve Name and DOB of Manager with Manager_Id 1
26 • SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1;
27 ##Query to Display Annual Income of All Managers
28 • SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers;
29 ##Query to Display Records of All Managers Except 'Aaliya'
30 • SELECT * FROM Managers WHERE First_name != 'Aaliya';

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Manager_Id	First_name	Last_Name	DOB	Age	Last_update	Gender	Department	Salary
1	Alice	Smith	1985-06-15	39	2024-10-16 21:16:13	F	HR	30000.00
2	Bob	Johnson	1980-03-10	44	2024-10-16 21:16:13	M	Finance	40000.00
3	Charlie	Brown	1990-08-22	34	2024-10-16 21:16:13	M	IT	28000.00
4	Diana	Prince	1982-12-01	41	2024-10-16 21:16:13	F	IT	27000.00
5	Eva	Adams	1978-11-30	45	2024-10-16 21:16:13	F	Marketing	32000.00
6	Frank	Miller	1989-04-12	35	2024-10-16 21:16:13	M	IT	26000.00
7	Grace	Davis	1995-01-25	29	2024-10-16 21:16:13	F	HR	23000.00
8	Hank	Wilson	1987-05-05	37	2024-10-16 21:16:13	M	Finance	35000.00
9	Ivy	Thomas	1983-07-17	41	2024-10-16 21:16:13	F	Marketing	34000.00
10	Jack	Taylor	1992-09-29	31	2024-10-16 21:16:13	M	IT	22000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Managers 3 x

Output

#	Time	Action	Message
2	21:14:56	USE Sales	0 row(s) affected
3	21:15:01	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHA...	0 row(s) affected
4	21:16:12	INSERT INTO Managers (First_name, Last_Name, DOB, Age, Gender, Department, Salary) VALUES ('Alice', 'S...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
5	21:17:11	SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1 LIMIT 0, 1000	1 row(s) returned
6	21:18:05	SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers LIMIT 0, 1000	10 row(s) returned
7	21:18:56	SELECT * FROM Managers WHERE First_name != 'Aaliya' LIMIT 0, 1000	10 row(s) returned

```

26 • SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1;
27 ##Query to Display Annual Income of All Managers
28 • SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers;
29 ##Query to Display Records of All Managers Except 'Aaliya'
30 • SELECT * FROM Managers WHERE First_name != 'Aaliya';
31 ##Query to Display Details of Managers in IT Earning More Than 25000 per Month
32 • SELECT * FROM Managers WHERE Department = 'IT' AND Salary > 25000;
33

```

Manager_Id	First_name	Last_Name	DOB	Age	Last_update	Gender	Department	Salary
3	Charlie	Brown	1990-08-22	34	2024-10-16 21:16:13	M	IT	28000.00
4	Diana	Prince	1982-12-01	41	2024-10-16 21:16:13	F	IT	27000.00
6	Frank	Miller	1989-04-12	35	2024-10-16 21:16:13	M	IT	26000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Managers 4 x

Output

#	Time	Action	Message
3	21:15:01	CREATE TABLE Managers (Manager_Id INT PRIMARY KEY AUTO_INCREMENT, First_name VARCHAR...	0 row(s) affected
4	21:16:12	INSERT INTO Managers (First_name, Last_Name, DOB, Age, Gender, Department, Salary) VALUES ('Alice', 'S...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
5	21:17:11	SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1 LIMIT 0, 1000	1 row(s) returned
6	21:18:05	SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers LIMIT 0, 1000	10 row(s) returned
7	21:18:56	SELECT * FROM Managers WHERE First_name != 'Aaliya' LIMIT 0, 1000	10 row(s) returned
8	21:19:50	SELECT * FROM Managers WHERE Department = 'IT' AND Salary > 25000 LIMIT 0, 1000	3 row(s) returned

```

28 • SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers;
29 ##Query to Display Records of All Managers Except 'Aaliya'
30 • SELECT * FROM Managers WHERE First_name != 'Aaliya';
31 ##Query to Display Details of Managers in IT Earning More Than 25000 per Month
32 • SELECT * FROM Managers WHERE Department = 'IT' AND Salary > 25000;
33 ## Query to Display Details of Managers with Salary Between 10000 and 35000
34 • SELECT * FROM Managers WHERE Salary BETWEEN 10000 AND 35000;
35

```

Manager_Id	First_name	Last_Name	DOB	Age	Last_update	Gender	Department	Salary
1	Alice	Smith	1985-06-15	39	2024-10-16 21:16:13	F	HR	30000.00
3	Charlie	Brown	1990-08-22	34	2024-10-16 21:16:13	M	IT	28000.00
4	Diana	Prince	1982-12-01	41	2024-10-16 21:16:13	F	IT	27000.00
5	Eva	Adams	1978-11-30	45	2024-10-16 21:16:13	F	Marketing	32000.00
6	Frank	Miller	1989-04-12	35	2024-10-16 21:16:13	M	IT	26000.00
7	Grace	Davis	1995-01-25	29	2024-10-16 21:16:13	F	HR	23000.00
8	Hank	Wilson	1987-05-05	37	2024-10-16 21:16:13	M	Finance	35000.00
9	Ivy	Thomas	1983-07-17	41	2024-10-16 21:16:13	F	Marketing	34000.00
10	Jack	Taylor	1992-09-29	31	2024-10-16 21:16:13	M	IT	22000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Managers 5 x

Output

#	Time	Action	Message
4	21:16:12	INSERT INTO Managers (First_name, Last_Name, DOB, Age, Gender, Department, Salary) VALUES ('Alice', 'S...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
5	21:17:11	SELECT First_name, Last_Name, DOB FROM Managers WHERE Manager_Id = 1 LIMIT 0, 1000	1 row(s) returned
6	21:18:05	SELECT First_name, Last_Name, (Salary * 12) AS Annual_Income FROM Managers LIMIT 0, 1000	10 row(s) returned
7	21:18:56	SELECT * FROM Managers WHERE First_name != 'Aaliya' LIMIT 0, 1000	10 row(s) returned
8	21:19:50	SELECT * FROM Managers WHERE Department = 'IT' AND Salary > 25000 LIMIT 0, 1000	3 row(s) returned
9	21:20:35	SELECT * FROM Managers WHERE Salary BETWEEN 10000 AND 35000 LIMIT 0, 1000	9 row(s) returned

Summary of Operations

- **Table Creation:** The Managers table is created with necessary fields and constraints.
- **Data Insertion:** Ten rows of sample data are inserted.
- **Queries:** Various queries are constructed to retrieve specific information about managers based on different conditions.

These SQL commands will help you create and manage the Managers table effectively while performing the specified operations.