

1. Created a database 'bank'.

```
1 #database creation
2 • create database bank;
3 • use bank;
```

SCHEMAS

Filter objects

bank

- Tables
- Views
- Stored Procedures
- Functions

2. Created a table 'Managers' in the database 'bank'

```
5 #create table
6 • create table managers {
7   Manager_ID int primary key,
8   First_Name varchar(30) not null,
9   Last_Name varchar(30),
10  DOB date,
11  Age int check(Age>0 and Age<100),
12  Last_Update timestamp default current_timestamp,
13  Gender char(1),
14  Department varchar(30),
15  salary decimal(10,2) not null
16 }
```

Field	Type	Null	Key	Default	Extra
Manager_ID	int	NO	PRI		
First_Name	varchar(30)	NO			
Last_Name	varchar(30)	YES			
DOB	date	YES			
Age	int	YES			
Last_Update	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
Gender	char(1)	YES			
Department	varchar(30)	YES			
salary	decimal(10,2)	NO			

3. Inserted 10 rows into the table 'Managers'.

```
20 #inserting values to the columns of table:Managers
21 • INSERT INTO Managers (Manager_ID, First_Name, Last_Name, DOB, Age, Gender, Department, Salary)
22   VALUES
23   (1, 'John', 'Doe', '1985-03-20', 39, 'M', 'HR', 40000),
24   (2, 'Jane', 'Smith', '1990-06-15', 34, 'F', 'Finance', 30000),
25   (3, 'Robert', 'Johnson', '1987-09-25', 37, 'M', 'IT', 45000),
26   (4, 'Emily', 'Davis', '1992-01-12', 32, 'F', 'HR', 28000),
27   (5, 'Michael', 'Brown', '1983-04-05', 41, 'M', 'IT', 32000),
28   (6, 'Aaliya', 'Hussain', '1991-11-30', 33, 'F', 'Marketing', 35000),
29   (7, 'David', 'Wilson', '1988-08-21', 36, 'M', 'Finance', 26000),
30   (8, 'Sophia', 'Miller', '1989-05-02', 35, 'F', 'IT', 30000),
31   (9, 'James', 'Moore', '1995-10-10', 29, 'M', 'Marketing', 20000),
32   (10, 'Olivia', 'Taylor', '1993-07-14', 31, 'F', 'IT', 27000);
33
34 • select * from managers;
```

Manager_ID	First_Name	Last_Name	DOB	Age	Last_Update	Gender	Department	salary
1	John	Doe	1985-03-20	39	2024-10-16 23:29:51	M	HR	40000.00
2	Jane	Smith	1990-06-15	34	2024-10-16 23:29:51	F	Finance	30000.00
3	Robert	Johnson	1987-09-25	37	2024-10-16 23:29:51	M	IT	45000.00
4	Emily	Davis	1992-01-12	32	2024-10-16 23:29:51	F	HR	28000.00
5	Michael	Brown	1983-04-05	41	2024-10-16 23:29:51	M	IT	32000.00
6	Aaliya	Hussain	1991-11-30	33	2024-10-16 23:29:51	F	Marketing	35000.00
7	David	Wilson	1988-08-21	36	2024-10-16 23:29:51	M	Finance	26000.00
8	Sophia	Miller	1989-05-02	35	2024-10-16 23:29:51	F	IT	30000.00
9	James	Moore	1995-10-10	29	2024-10-16 23:29:51	M	Marketing	20000.00
10	Olivia	Taylor	1993-07-14	31	2024-10-16 23:29:51	F	IT	27000.00

4. Retrieved the data (Name, DOB) of Manager_ID=1.

```
36 #retrieve the name and DOB of Manager_id=1
37 • SELECT First_Name, Last_Name, DOB
38   FROM Managers
39   WHERE Manager_ID = 1;
```

First_Name	Last_Name	DOB
John	Doe	1985-03-20

5. Displaying the Annual income of all managers.

```
41 #Display the annual income of all managers
42 • SELECT First_Name, Last_Name, (Salary * 12) AS Annual_Income
43   FROM Managers;
```

First_Name	Last_Name	Annual_Income
John	Doe	480000.00
Jane	Smith	360000.00
Robert	Johnson	540000.00
Emily	Davis	336000.00
Michael	Brown	384000.00
Aaliya	Hussain	420000.00
David	Wilson	312000.00
Sophia	Miller	360000.00
James	Moore	240000.00
Olivia	Taylor	324000.00

6. Displaying the records of all managers except 'Aaliya'.

```

45 #Display records of all managers except 'Aaliya'
46 • SELECT *
47 FROM Managers
48 WHERE First_Name <> 'Aaliya';
49

```

Manager_ID	First_Name	Last_Name	DOB	Age	Last_Update	Gender	Department	salary
1	John	Doe	1985-03-20	39	2024-10-16 23:29:51	M	HR	40000.00
2	Jane	Smith	1990-06-15	34	2024-10-16 23:29:51	F	Finance	30000.00
3	Robert	Johnson	1987-09-25	37	2024-10-16 23:29:51	M	IT	45000.00
4	Emily	Davis	1992-01-12	32	2024-10-16 23:29:51	F	HR	28000.00
5	Michael	Brown	1983-04-05	41	2024-10-16 23:29:51	M	IT	32000.00
7	David	Wilson	1988-08-21	36	2024-10-16 23:29:51	M	Finance	26000.00
8	Sophia	Miller	1989-05-02	35	2024-10-16 23:29:51	F	IT	30000.00
9	James	Moore	1995-10-10	29	2024-10-16 23:29:51	M	Marketing	28000.00
10	Olivia	Taylor	1993-07-14	31	2024-10-16 23:29:51	F	IT	27000.00

7. Displaying details of managers whose department is IT and earns more than 25000 per month.

```

50 #Display details of managers in the IT Department earning more than 25,000 per Month
51 • SELECT *
52 FROM Managers
53 WHERE Department = 'IT' AND Salary > 25000;
54

```

Manager_ID	First_Name	Last_Name	DOB	Age	Last_Update	Gender	Department	salary
3	Robert	Johnson	1987-09-25	37	2024-10-16 23:29:51	M	IT	45000.00
5	Michael	Brown	1983-04-05	41	2024-10-16 23:29:51	M	IT	32000.00
8	Sophia	Miller	1989-05-02	35	2024-10-16 23:29:51	F	IT	30000.00
10	Olivia	Taylor	1993-07-14	31	2024-10-16 23:29:51	F	IT	27000.00

8. Displaying details of managers whose salary is between 10000 and 35000.

```

55 #Display Details of Managers whose Salary is Between 10,000 and 35,000
56 • SELECT *
57 FROM Managers
58 WHERE Salary BETWEEN 10000 AND 35000;
59

```

Manager_ID	First_Name	Last_Name	DOB	Age	Last_Update	Gender	Department	salary
2	Jane	Smith	1990-06-15	34	2024-10-16 23:29:51	F	Finance	30000.00
4	Emily	Davis	1992-01-12	32	2024-10-16 23:29:51	F	HR	28000.00
5	Michael	Brown	1983-04-05	41	2024-10-16 23:29:51	M	IT	32000.00
6	Aaliya	Hussain	1991-11-30	33	2024-10-16 23:29:51	F	Marketing	35000.00
7	David	Wilson	1988-08-21	36	2024-10-16 23:29:51	M	Finance	26000.00
8	Sophia	Miller	1989-05-02	35	2024-10-16 23:29:51	F	IT	30000.00
9	James	Moore	1995-10-10	29	2024-10-16 23:29:51	M	Marketing	28000.00
10	Olivia	Taylor	1993-07-14	31	2024-10-16 23:29:51	F	IT	27000.00