


























DATABASE ASSIGNMENT

CREATE TABLE QUERY

```
CREATE TABLE EmployeeInfo (  
    EmpID int,  
    EmpFname varchar(255),  
    EmpLname varchar(255),  
    Department varchar(255),  
    Project varchar(255),  
    Address varchar(255),  
    DOB date,  
    Gender varchar(1),  
)
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 EmpID 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 EmpFname	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	3 EmpLname	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	4 Department	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	5 Project	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	6 Address	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	7 DOB	date			Yes	NULL			 Change  Drop  More
<input type="checkbox"/>	8 Gender	varchar(1)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More

Query for insertion of data

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address,
DOB, Gender) VALUES (1, "Sanjay", "Mehra", "HR","P1","Hyderabad(HYD)", "1976/12/01",
"M");
```

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address,
DOB, Gender) VALUES (2, "Ananya", "Mishra", "Admin","P2"," Delhi(DEL)", "1968/05/02", "F");
```

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address,
DOB, Gender) VALUES (3, "Rohan", "Diwan", "Account","P3"," Mumbai(BOM)", "1980/01/01",
"M");
```

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address,
DOB, Gender) VALUES (4, "Sonia", "Kulkarni", "HR","P1"," Hyderabad(HYD)", "1992/05/02",
"F");
```

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address,
DOB, Gender) VALUES (5, "Ankit", "Kapoor", "Admin","P2"," Delhi(DEL)", "1994/07/03", "M");
```

Server: localhost » Database: Simform_Database » Table: EmployeeInfo

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

More

Show query box

✓ 1 row inserted. (Query took 0.0028 seconds.)

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address, DOB, Gender) VALUES (1, "Sanjay", "Mehra", "HR", "P1", "Hyderabad(HYD)", '1976/12/01', "M");
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0019 seconds.)

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address, DOB, Gender) VALUES (2, "Ananya", "Mishra", "Admin", "P2", "Delhi(DEL)", "1968/05/02", "F");
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0018 seconds.)

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address, DOB, Gender) VALUES (3, "Rohan", "Diwan", "Account", "P3", "Mumbai(BOM)", "1980/01/01", "M");
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0018 seconds.)

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address, DOB, Gender) VALUES (4, "Sonia", "Kulkarni", "HR", "P1", "Hyderabad(HYD)", "1992/05/02", "F");
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0018 seconds.)

```
INSERT INTO EmployeeInfo( EmpID, EmpFname, EmpLname, Department, Project, Address, DOB, Gender) VALUES (5, "Ankit", "Kapoor", "Admin", "P2", "Delhi(DEL)", "1994/07/03", "M");
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

Console

CREATE TABLE QUERY

```
CREATE TABLE EmployeePosition (  
    EmpID int,  
    EmpPosition varchar(255),  
    DateOfJoining varchar(255),  
    Salary int  
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0051 seconds.)

```
CREATE TABLE EmployeePosition ( EmpID int, EmpPosition varchar(255), DateOfJoining varchar(255), Salary int );
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

Query for insertion of data


```
INSERT INTO EmployeePosition( EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1,  
"Manager", "01/05/2022", 500000)
```

```
INSERT INTO EmployeePosition( EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1,  
"Executive", "02/05/2022", 75000)
```

```
INSERT INTO EmployeePosition( EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1,  
"Manager", "01/05/2022", 90000)
```

```
INSERT INTO EmployeePosition( EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1, "Lead",  
"01/05/2022", 85000)
```

```
INSERT INTO EmployeePosition( EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1, "Executive", "01/05/2022", 300000)
```



The screenshot shows a database management tool interface with the following components:

- Server:** localhost
- Database:** Simform_Database
- Table:** EmployeeInfo
- Navigation Bar:** Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking.
- SQL Editor:** Contains the query: `INSERT INTO EmployeePosition(EmpID, EmpPosition, DateOfJoining, Salary) VALUES (1, "Manager", "2022/05/01", 500000);`
- Execution Results:** A series of green status bars indicating successful insertions:
 - ✓ 1 row inserted. (Query took 0.0021 seconds.)
 - ✓ 1 row inserted. (Query took 0.0019 seconds.)
 - ✓ 1 row inserted. (Query took 0.0019 seconds.)
 - ✓ 1 row inserted. (Query took 0.0019 seconds.)
- Console:** A tab at the bottom for viewing output.

OTHER QUERIES

1. Write a query to fetch the number of employees working in the department 'Admin'

```
SELECT COUNT(*) FROM EmployeeInfo WHERE Department = "Admin";
```

Your SQL query has been executed successfully.

```
SELECT COUNT(*) FROM EmployeeInfo WHERE Department = "Admin";
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

+ Options

COUNT(*)

2

2. Write a query to retrieve the first four characters of EmpLname from the EmployeeInfo table.

```
SELECT SUBSTRING(EmpLname,1,4) AS EmpLname FROM EmployeeInfo;
```

✓ Showing rows 0 - 4 (5 total, Query took 0.0007 seconds.)

```
SELECT SUBSTRING(EmpLname,1,4) AS EmpLname FROM EmployeeInfo;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

EmpLname

Mehr

Mish

Diwa

Kulk

Kapo

3. Write a query to find all the employees whose salary is between 50000 to 100000.

```
SELECT * FROM EmployeePosition WHERE Salary BETWEEN 50000 AND 100000;
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0010 seconds.)

```
SELECT * FROM EmployeePosition WHERE Salary BETWEEN 50000 AND 100000;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

EmpID	EmpPosition	DateOfJoining	Salary
1	Executive	2022/05/02	75000
1	Manager	2022/05/01	90000
1	Lead	2022/05/01	85000

4. Write a query to find the names of employees that begin with 'S'

```
SELECT * FROM EmployeeInfo WHERE EmpFname like 'S%';
```

Showing rows 0 - 1 (2 total, Query took 0.0006 seconds.)

```
SELECT * FROM EmployeeInfo WHERE EmpFname like 'S%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	EmpID	EmpFname	EmpLname	Department	Project	Address	DOB	Gender
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Sanjay	Mehra	HR	P1	Hyderabad(HYD)	1976-12-01	M
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Sonia	Kulkarni	HR	P1	Hyderabad(HYD)	1992-05-02	F

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

5. Write a query to fetch top N records order by salary. (ex. top 5 records)

```
SELECT EI.*,EP.Salary FROM EmployeeInfo EI, EmployeePosition EP WHERE EI.EmpID=EP.EmpID ORDER BY EP.Salary limit 5;
```

Showing rows 0 - 4 (5 total, Query took 0.0008 seconds.) [Salary: 75000... - 500000...]

```
SELECT EI.*,EP.Salary FROM EmployeeInfo EI, EmployeePosition EP WHERE EI.EmpID=EP.EmpID ORDER BY EP.Salary limit 5;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

+ Options

EmpID	EmpFname	EmpLname	Department	Project	Address	DOB	Gender	Salary
2	Ananya	Mishra	Admin	P2	Delhi(DEL)	1968-05-02	F	75000
4	Sonia	Kulkarni	HR	P1	Hyderabad(HYD)	1992-05-02	F	85000
3	Rohan	Diwan	Account	P3	Mumbai(BOM)	1980-01-01	M	90000
5	Ankit	Kapoor	Admin	P2	Delhi(DEL)	1994-07-03	M	300000
1	Sanjay	Mehra	HR	P1	Hyderabad(HYD)	1976-12-01	M	500000

Query results operations

6. Write a query to fetch details of all employees excluding the employees with first names, "Sanjay" and "Sonia" from the EmployeeInfo table.

```
SELECT * FROM EmployeeInfo WHERE EmpFname NOT IN ("Sanjay","Sonia");
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

```
SELECT * FROM EmployeeInfo WHERE EmpFname NOT IN ("Sanjay", "Sonia");
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: | Sort by key: None

+ Options

	EmpID	EmpFname	EmpLname	Department	Project	Address	DOB	Gender
<input type="checkbox"/> Edit Copy Delete	2	Ananya	Mishra	Admin	P2	Delhi(DEL)	1968-05-02	F
<input type="checkbox"/> Edit Copy Delete	3	Rohan	Diwan	Account	P3	Mumbai(BOM)	1980-01-01	M
<input type="checkbox"/> Edit Copy Delete	5	Ankit	Kapoor	Admin	P2	Delhi(DEL)	1994-07-03	M

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: | Sort by key: None

7. Write a query to fetch the department-wise count of employees sorted by department's count in ascending order.

[SELECT COUNT\(*\)](#), Department FROM EmployeeInfo GROUP BY Department;

✓ Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)

```
SELECT COUNT(*), Department FROM EmployeeInfo GROUP BY Department;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

	COUNT(*)	Department
1	Account	
2	Admin	
2	HR	