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| 10. SQL ASSIGNMENTS (TEMP TABLES, CTE ETC) |
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**EXECUTE THE SQL QUERIES AND CREATE An EMPLOYEE TABLE IN THE DATABASE.**

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| CREATE TABLE [dbo].[EMPLOYEES]( [EMPID] [int] IDENTITY(1,1) NOT NULL, [EMPNAME] [varchar](100) NULL, [SALARY] [float] NULL, [TAX] [float] NULL, [DOJ] [datetime] NULL, [DEPT] [varchar](100) NULL, [DESG] [varchar](100) NULL, [DEPTMANAGERNAME] [varchar](100) NULL, [DEPTLOCATION] [varchar](100) NULL, CONSTRAINT [pk\_empid] PRIMARY KEY CLUSTERED ( [EMPID] ASC)) ON [PRIMARY]GOSET IDENTITY\_INSERT [dbo].[EMPLOYEES] ON GOINSERT [dbo].[EMPLOYEES] VALUES (1, N'AKASH', 70000, 2000, CAST(N'2017-05-20' AS DateTime), N'IT', N'SOFTWARE DEVELOPER', N'SURESH', N'PUNE')INSERT [dbo].[EMPLOYEES] VALUES (2, N'AKSHAY', 69000, 1900, CAST(N'2017-07-14' AS DateTime), N'IT', N'ARCHITECT', N'SURESH', N'PUNE')INSERT [dbo].[EMPLOYEES] VALUES (3, N'ASHWIN', 77000, 2100, CAST(N'2017-09-14' AS DateTime), N'IT', N'ARCHITECT', N'SURESH', N'PUNE')INSERT [dbo].[EMPLOYEES] VALUES (4, N'CHINMAY', 88000, 2900, CAST(N'2017-09-10' AS DateTime), N'HR', N'MANAGER', N'ANITA', N'MUMBAI')INSERT [dbo].[EMPLOYEES] VALUES (5, N'DEBAYAN', 65000, 2100, CAST(N'2017-10-18' AS DateTime), N'HR', N'EXECUTIVE', N'ANITA', N'MUMBAI')INSERT [dbo].[EMPLOYEES] VALUES (6, N'MANGESH', 99000, 2900, CAST(N'2017-10-10T00:00:00.000' AS DateTime), N'HR', N'MANAGER', N'ANITA', N'MUMBAI')INSERT [dbo].[EMPLOYEES] VALUES (7, N'NIKHIL', 56000, 2100, CAST(N'2017-07-18T00:00:00.000' AS DateTime), N'HR', N'EXECUTIVE', N'ANITA', N'MUMBAI')INSERT [dbo].[EMPLOYEES] VALUES (10, N'SANDEEP', 45000, 460, CAST(N'2017-07-25T00:00:00.000' AS DateTime), N'IT', N'SOFTWARE DEVELOPER', N'SURESH', N'PUNE')INSERT [dbo].[EMPLOYEES] VALUES (11, N'NIRAJ', 48000, 460, CAST(N'2017-07-25T00:00:00.000' AS DateTime), N'ADMIN', N'MANAGER', N'DELHI', NULL)INSERT [dbo].[EMPLOYEES] VALUES (12, N'VIVEL', 89000, 2000, CAST(N'2017-01-20T00:00:00.000' AS DateTime), N'SECURITY', N'MANAGER', N'KOLKATTA', NULL)INSERT [dbo].[EMPLOYEES] VALUES (13, N'DILLIP', 47000, 400, CAST(N'2017-09-25T00:00:00.000' AS DateTime), N'IT', N'TRAINER', N'SURESH', N'PUNE')SET IDENTITY\_INSERT [dbo].[EMPLOYEES] OFFGO |
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| EMPID | EMPNAME | SALARY | TAX | DOJ | DEPT | DESG | DEPTMANAGERNAME | DEPTLOCATION |
| 1 | AKASH | 70000 | 2000 | 20-05-2017 | IT | SOFTWARE DEVELOPER | SURESH | PUNE |
| 2 | AKSHAY | 69000 | 1900 | 14-07-2018 | IT | ARCHITECT | SURESH | PUNE |
| 3 | ASHWIN | 77000 | 2100 | 14-09-2017 | IT | ARCHITECT | SURESH | PUNE |
| 4 | CHINMAY | 88000 | 2900 | 10-09-2017 | HR | MANAGER | ANITA | MUMBAI |
| 5 | DEBAYAN | 65000 | 2100 | 18-10-2017 | HR | EXECUTIVE | ANITA | MUMBAI |
| 6 | MANGESH | 99000 | 2900 | 10-10-2017 | HR | MANAGER | ANITA | MUMBAI |
| 7 | NIKHIL | 56000 | 2100 | 18-07-2018 | HR | EXECUTIVE | ANITA | MUMBAI |
| 10 | SANDEEP | 45000 | 460 | 25-07-2017 | IT | SOFTWARE DEVELOPER | SURESH | PUNE |
| 11 | NIRAJ | 48000 | 460 | 25-07-2017 | ADMIN | MANAGER | DELHI | NULL |
| 12 | VIVEL | 89000 | 2000 | 20-01-2019 | SECURITY | MANAGER | KOLKATTA | NULL |
| 13 | DILLIP | 47000 | 400 | 25-09-2017 | IT | TRAINER | SURESH | PUNE |

**WRITE ANSWERS TO THE QUERIES USING THE ABOVE TABLE**

1. Write a CTE to find the details of employee having the 4th Highest salary
2. Write a Subquery to find the details of employee having the 4th Highest salary
3. Write a query to find names of employee of the each department whose salary is greater than the average salary of the department.
4. Write a query to find names of employee of the each department whose salary is less than the average salary of the department.
5. Write a query to find the number of employees recruited in each department in different years.(Use Pivot if required)

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| DEPT / YEAR | 2017 | 2018 | 2019 |
| IT |  |  |  |
| HR |  |  |  |
| ADMIN |  |  |  |

1. Write a stored procedure which will create two table from the single table (One is the department table and second is the employee table and create a relationship between them). [Hint : Use temp tables if required)
2. Write a stored to create three tables from the single table and also move the data to each tables. (One is department, employee and salary details)

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| DimDept  | DeptId(Primary Key) |
| DimEmployee | EmpId(PKey) DeptId(FKey) |
| FactSalary | EmpId(FKey) |