

Assignment SQL

Vijit

Code :

use KANINIBATCH2

```
create table Emp1(empno char(6), fname varchar(20),midname varchar(20),lname
varchar(20),workdept varchar(20) REFERENCES Department1(deptname),phoneno
bigint CHECK (phoneno >= 1000000000 AND phoneno <= 9999999999),hiredate
date,job varchar(10),edlevel varchar(10),sex char(1) CHECK (sex IN ('M', 'F',
'O')),birthdate date,salary decimal(8,2),bonus decimal(8,2),comm decimal(8,2))
```

```
create table Department1(deptno char(3) ,deptname varchar(20) primary key, mgrno
char(6),admrdept char(3),location varchar(20))
```

```
INSERT INTO Emp1 VALUES ('E00001', 'Rahul', 'Kumar', 'Sharma', 'Sales', 9876543210,
'2022-01-15', 'Manager', 'B.Sc.', 'M', '1988-05-20', 65000.00, 5000.00, 2000.00);
```

```
INSERT INTO Emp1 VALUES ('E00002', 'Priya', NULL, 'Singh', 'Marketing', 9876543211,
'2021-06-20', 'Analyst', 'M.Tech', 'F', '1992-11-10', 45000.00, 2500.00, 0.00);
```

```
INSERT INTO Emp1 VALUES ('E00003', 'Amit', 'J.', 'Gupta', 'IT', 9876543212, '2023-03-10',
'Developer', 'B.E.', 'M', '1995-03-01', 55000.00, 3000.00, 500.00);
```

```
INSERT INTO Emp1 VALUES ('E00004', 'Neha', NULL, 'Kumari', 'HR', 9876543213, '2022-
09-01', 'Recruiter', 'B.A.', 'F', '1990-07-15', 40000.00, 1500.00, 0.00);
```

```
INSERT INTO Emp1 VALUES ('E00005', 'Vikas', 'D.', 'Reddy', 'IT', 9876543214, '2023-01-25',
'Engineer', 'M.Sc.', 'M', '1998-01-20', 60000.00, 4000.00, 1000.00);
```

```
INSERT INTO Emp1 VALUES ('E00006', 'Anjali', 'K.', 'Devi', 'Sales', 9876543215, '2024-04-
05', 'Associate', 'B.Com', 'F', '1993-09-03', 38000.00, 1000.00, 1500.00);
```

```
INSERT INTO Emp1 VALUES ('E00007', 'Arjun', NULL, 'Patel', 'Marketing', 9876543216,
'2021-12-01', 'Specialist', 'B.Sc.', 'M', '1996-04-25', 50000.00, 3500.00, 800.00);
```

```
INSERT INTO Emp1 VALUES ('E00008', 'Sneha', 'L.', 'Verma', 'HR', 9876543217, '2024-02-
18', 'Assistant', 'B.Sc.', 'F', '1994-06-18', 35000.00, 800.00, 0.00);
```

```
INSERT INTO Emp1 VALUES ('E00009', 'Sachin', 'T.', 'Joshi', 'IT', 9876543218, '2022-07-12',
'Analyst', 'B.E.', 'M', '1985-02-29', 58000.00, 3200.00, 750.00);
```

```
INSERT INTO Emp1 VALUES ('E00010', 'Deepika', NULL, 'Rao', 'Sales', 9876543219,
'2023-10-30', 'Manager', 'MBA', 'F', '1991-12-05', 70000.00, 6000.00, 2500.00);
```

```
INSERT INTO Department1 VALUES ('D01', 'Sales', 'E00001', 'D01', 'Mumbai');
```

```
INSERT INTO Department1 VALUES ('D02', 'Marketing', 'E00002', 'D01', 'Delhi');
INSERT INTO Department1 VALUES ('D03', 'IT', 'E00003', 'D01', 'Bengaluru');
INSERT INTO Department1 VALUES ('D04', 'HR', 'E00004', 'D01', 'Chennai');
INSERT INTO Department1 VALUES ('D05', 'Finance', 'E00005', 'D01', 'Hyderabad');
INSERT INTO Department1 VALUES ('D06', 'Operations', 'E00006', 'D01', 'Kolkata');
INSERT INTO Department1 VALUES ('D07', 'Research', 'E00007', 'D01', 'Ahmedabad');
INSERT INTO Department1 VALUES ('D08', 'Customer Service', 'E00008', 'D01', 'Pune');
INSERT INTO Department1 VALUES ('D09', 'Legal', 'E00009', 'D01', 'Delhi');
INSERT INTO Department1 VALUES ('D10', 'Product', 'E00010', 'D01', 'Mumbai');
```

GO

```
create or alter procedure EmployeesDept(@DeptName varchar(20))
```

```
as
```

```
begin
```

```
    select lname as Name from Emp1 where workdept=@DeptName
```

```
end
```

GO

```
EmployeesDept 'IT'
```

GO

```
create or alter procedure AvailableDepartments
```

```
as
```

```
begin
```

```
    select deptname as 'NAMES' from Department1
```

```
end
```

GO

AvailableDepartments

```
CREATE TABLE titles (
```

```
    title_id VARCHAR(10) PRIMARY KEY,
```

```
    title VARCHAR(100) NOT NULL,
```

```
    type VARCHAR(20) NOT NULL,
```

```
    price DECIMAL(10, 2),
```

```
    pub_id VARCHAR(4),
```

```
    pubdate DATE
```

```
);
```

```
INSERT INTO titles VALUES ('T001', 'The Great Adventure', 'Fiction', 25.50, 'P001', '2020-01-10');
```

```
INSERT INTO titles VALUES ('T002', 'History of Ancient India', 'History', 35.00, 'P002', '2018-05-22');
```

```
INSERT INTO titles VALUES ('T003', 'Coding Basics', 'Science', 45.75, 'P001', '2021-11-01');
```

```
INSERT INTO titles VALUES ('T004', 'Mystery of the Old House', 'Fiction', 18.99, 'P003', '2019-03-15');
```

```
INSERT INTO titles VALUES ('T005', 'Quantum Physics Explained', 'Science', 55.00, 'P002', '2022-07-01');
```

```
INSERT INTO titles VALUES ('T006', 'World War II Chronicles', 'History', 29.95, 'P003', '2017-09-01');
```

```
INSERT INTO titles VALUES ('T007', 'Fantasy Realm Saga', 'Fiction', 22.00, 'P001', '2023-02-28');
```

```
INSERT INTO titles VALUES ('T008', 'Data Structures in Python', 'Science', 49.50, 'P004', '2020-04-10');
```

```
INSERT INTO titles VALUES ('T009', 'The Mughal Empire', 'History', 32.75, 'P004', '2016-11-11');
```

```
INSERT INTO titles VALUES ('T010', 'Cooking for Beginners', 'Cookbook', 15.00, 'P001', '2021-08-01');
```

```
go
```

create or alter function AvgBookPrice(@typeb varchar(20))

returns decimal(10,2)

as

begin

declare @avgprice decimal(10,2)

select @avgprice = AVG(price) from titles where

type=@typeb;

return @avgprice

end

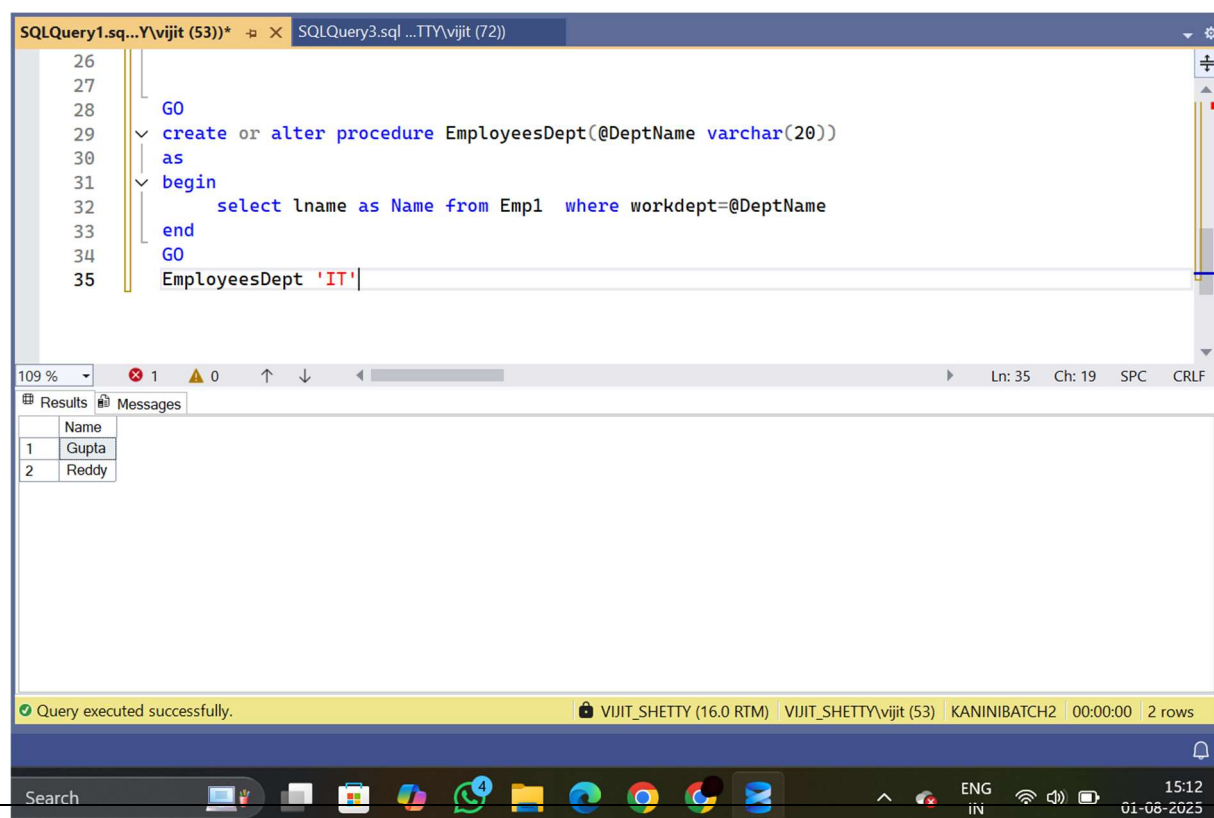
go

SELECT dbo.AvgBookPrice('Fiction') AS AverageFictionPrice;

SELECT dbo.AvgBookPrice('Science') AS AverageSciencePrice;

SELECT dbo.AvgBookPrice('Cookbook') AS AverageCookbookPrice;

Snapshots:



```
26
27
28 GO
29 create or alter procedure EmployeesDept(@DeptName varchar(20))
30 as
31 begin
32     select lname as Name from Emp1 where workdept=@DeptName
33 end
34 GO
35 EmployeesDept 'IT'
```

	Name
1	Gupta
2	Reddy

Query executed successfully. VIJIT_SHETTY (16.0 RTM) VIJIT_SHETTY\vijit (53) KANINIBATCH2 00:00:00 2 rows

SQLQuery1.sql...Y\vijit (53))* SQLQuery3.sql...TTY\vijit (72))

```
37 GO
38 create or alter procedure AvailableDepartments
39 as
40 begin
41     select deptname as 'NAMES' from Department1
42 end
43 GO
44 AvailableDepartments|
```

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Results Messages

	NAMES
1	Customer Service
2	Finance
3	HR
4	IT
5	Legal
6	Marketing
7	Operations
8	Product
9	Research
10	Sales

Query executed successfully. VIJIT_SHETTY (16.0 RTM) VIJIT_SHETTY\vijit (53) KANINIBATCH2 00:00:00 10 rows

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SQLQuery1.sql...Y\vijit (53))* SQLQuery3.sql...TTY\vijit (72))

```
65 create or alter function AvgBookPrice(@typeb varchar(20))
66 returns decimal(10,2)
67 as
68 begin
69     declare @avgprice decimal(10,2)
70     select @avgprice = AVG(price) from titles where
71     type=@typeb;
72     return @avgprice
73 end
74 go
75
76 SELECT dbo.AvgBookPrice('Fiction') AS AverageFictionPrice;
77 SELECT dbo.AvgBookPrice('Science') AS AverageSciencePrice;
```

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Results Messages

	AverageFictionPrice
1	22.16

	AverageSciencePrice
1	50.08

	AverageCookbookPrice
1	15.00

Query executed successfully. VIJIT_SHETTY (16.0 RTM) VIJIT_SHETTY\vijit (53) KANINIBATCH2 00:00:00 3 rows

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