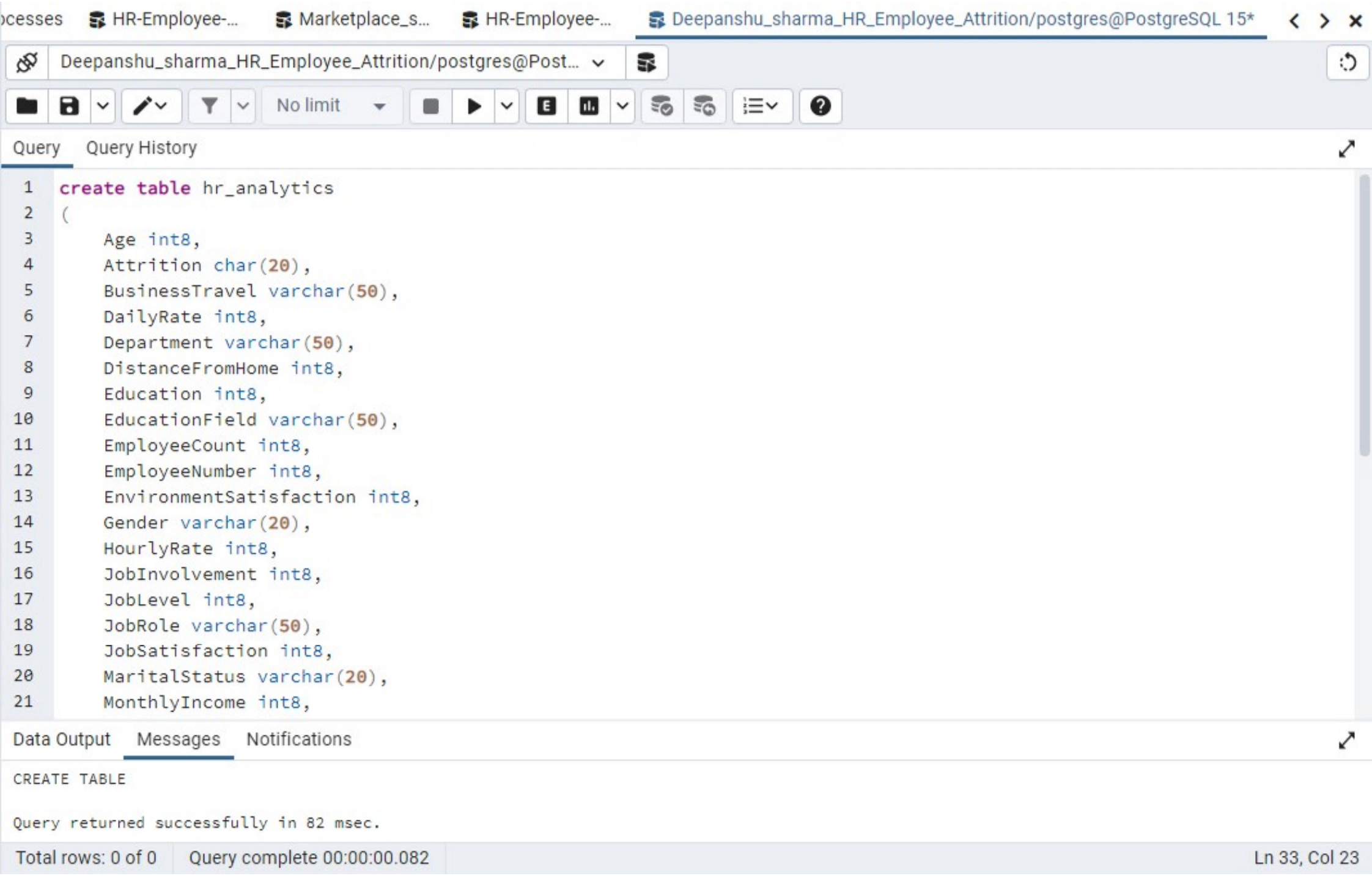

ocesses
HR-Employee-...
Marketplace_s...
HR-Employee-...
Deepanshu_sharma_HR_Employee_Attrition/postgres@PostgreSQL 15*
Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...
No limit
Query
Query History
1 create table hr_analytics
2 (
3 Age int8,
4 Attrition char(20),
5 BusinessTravel varchar(50),
6 DailyRate int8,
7 Department varchar(50),
8 DistanceFromHome int8,
9 Education int8,
10 EducationField varchar(50),
11 EmployeeCount int8,
12 EmployeeNumber int8,
13 EnvironmentSatisfaction int8,
14 Gender varchar(20),
15 HourlyRate int8,
16 JobInvolvement int8,
17 JobLevel int8,
18 JobRole varchar(50),
19 JobSatisfaction int8,
20 MaritalStatus varchar(20),
21 MonthlyIncome int8,
Data Output
Messages
Notifications
CREATE TABLE
Query returned successfully in 82 msec.
Total rows: 0 of 0
Query complete 00:00:00.082
Ln 33, Col 23

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sharma_HR_Employee_Attrition/postgres@PostgreSQL 15*

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

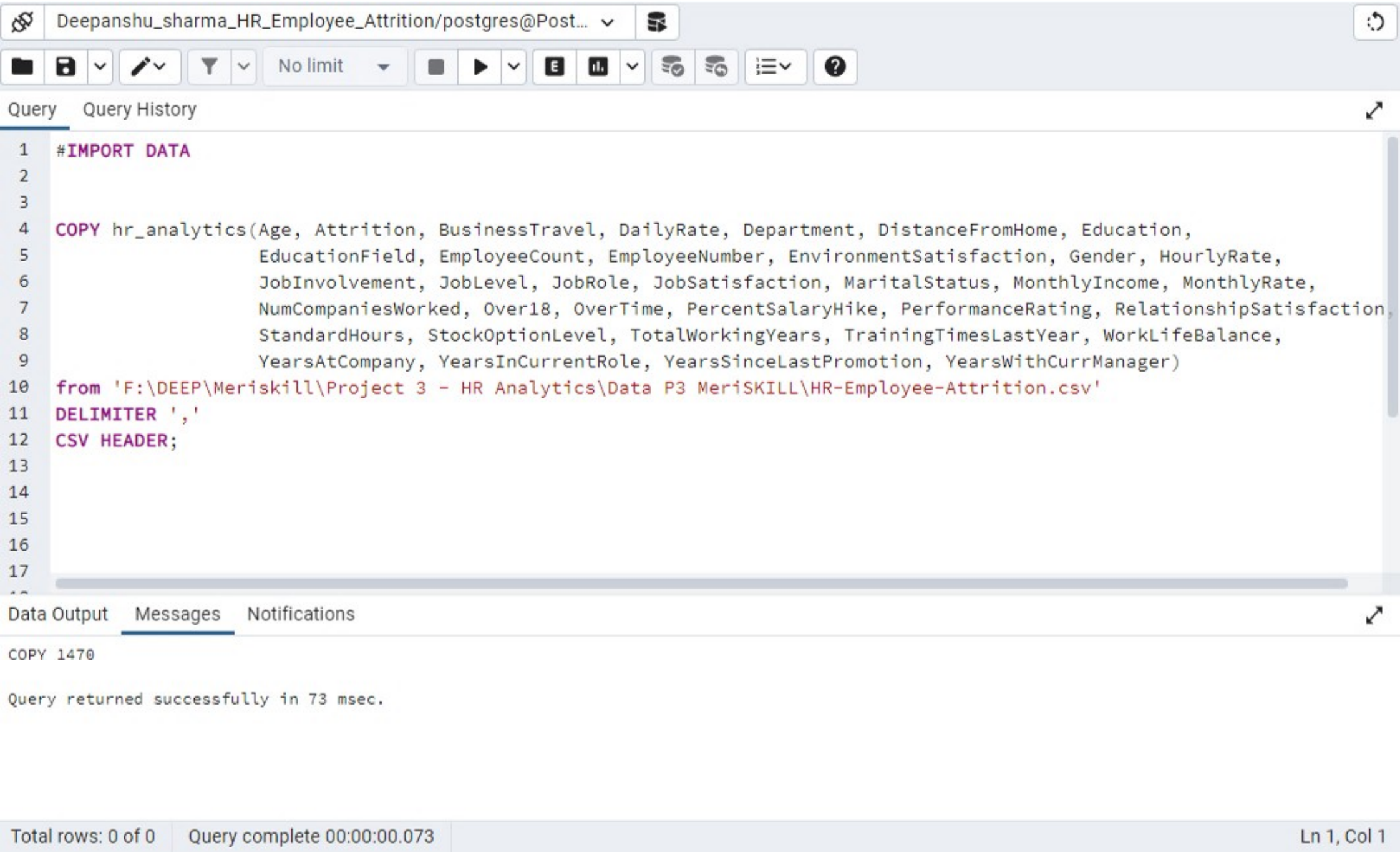
```
20      MaritalStatus varchar(20),
21      MonthlyIncome int8,
22      MonthlyRate int8,
23      NumCompaniesWorked int8,
24      Over18 varchar(10),
25      OverTime varchar(10),
26      PercentSalaryHike int8,
27      PerformanceRating int8,
28      RelationshipSatisfaction int8,
29      StandardHours int8,
30      StockOptionLevel int8,
31      TotalWorkingYears int8,
32      TrainingTimesLastYear int8,
33      WorkLifeBalance int8,
34      YearsAtCompany int8,
35      YearsInCurrentRole int8,
36      YearsSinceLastPromotion int8,
37      YearsWithCurrManager int8
38  )
39
40
```

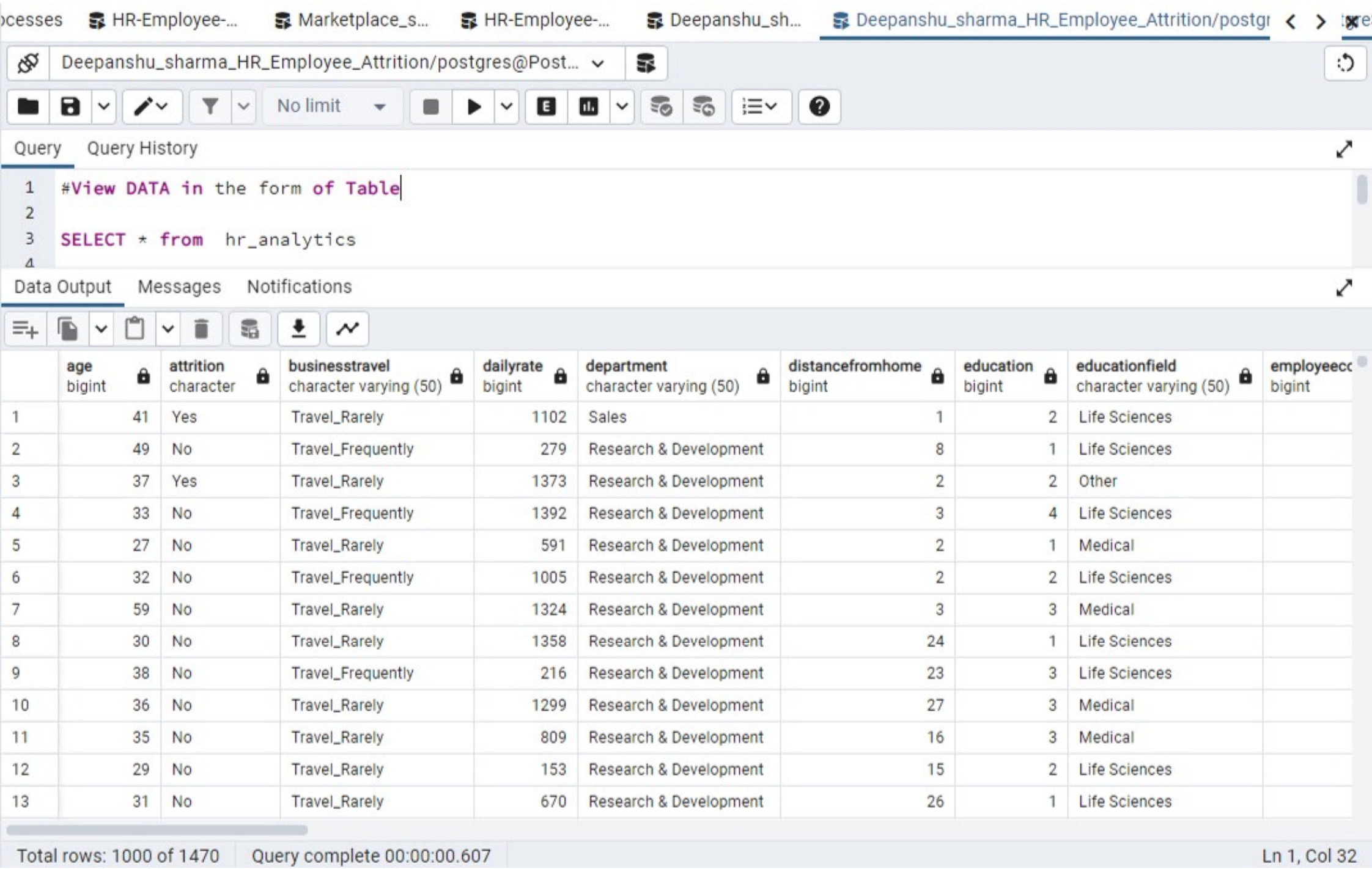
Data Output | Messages | Notifications

```
CREATE TABLE

Query returned successfully in 82 msec.
```

Total rows: 0 of 0 | Query complete 00:00:00.082 | Ln 33, Col 23


Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...
No limit
Query
Query History
#IMPORT DATA
COPY hr_analytics(Age, Attrition, BusinessTravel, DailyRate, Department, DistanceFromHome, Education,
EducationField, EmployeeCount, EmployeeNumber, EnvironmentSatisfaction, Gender, HourlyRate,
JobInvolvement, JobLevel, JobRole, JobSatisfaction, MaritalStatus, MonthlyIncome, MonthlyRate,
NumCompaniesWorked, Over18, OverTime, PercentSalaryHike, PerformanceRating, RelationshipSatisfaction,
StandardHours, StockOptionLevel, TotalWorkingYears, TrainingTimesLastYear, WorkLifeBalance,
YearsAtCompany, YearsInCurrentRole, YearsSinceLastPromotion, YearsWithCurrManager)
from 'F:\DEEP\Meriskill\Project 3 - HR Analytics\Data P3 MeriSKILL\HR-Employee-Attrition.csv'
DELIMITER ','
CSV HEADER;
Data Output
Messages
Notifications
COPY 1470
Query returned successfully in 73 msec.
Total rows: 0 of 0
Query complete 00:00:00.073
Ln 1, Col 1



	age bigint	attrition character	businesstravel character varying (50)	dailyrate bigint	department character varying (50)	distancefromhome bigint	education bigint	educationfield character varying (50)	employeecc bigint
1	41	Yes	Travel_Rarely	1102	Sales	1	2	Life Sciences	
2	49	No	Travel_Frequently	279	Research & Development	8	1	Life Sciences	
3	37	Yes	Travel_Rarely	1373	Research & Development	2	2	Other	
4	33	No	Travel_Frequently	1392	Research & Development	3	4	Life Sciences	
5	27	No	Travel_Rarely	591	Research & Development	2	1	Medical	
6	32	No	Travel_Frequently	1005	Research & Development	2	2	Life Sciences	
7	59	No	Travel_Rarely	1324	Research & Development	3	3	Medical	
8	30	No	Travel_Rarely	1358	Research & Development	24	1	Life Sciences	
9	38	No	Travel_Frequently	216	Research & Development	23	3	Life Sciences	
10	36	No	Travel_Rarely	1299	Research & Development	27	3	Medical	
11	35	No	Travel_Rarely	809	Research & Development	16	3	Medical	
12	29	No	Travel_Rarely	153	Research & Development	15	2	Life Sciences	
13	31	No	Travel_Rarely	670	Research & Development	26	1	Life Sciences	

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  #TOTAL EMPLOYEES
2
3  SELECT count(*) from  hr_analytics
4
```

Data Output | Messages | Notifications

	count bigint
1	1470

Total rows: 1 of 1 | Query complete 00:00:00.117 | Ln 3, Col 1

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

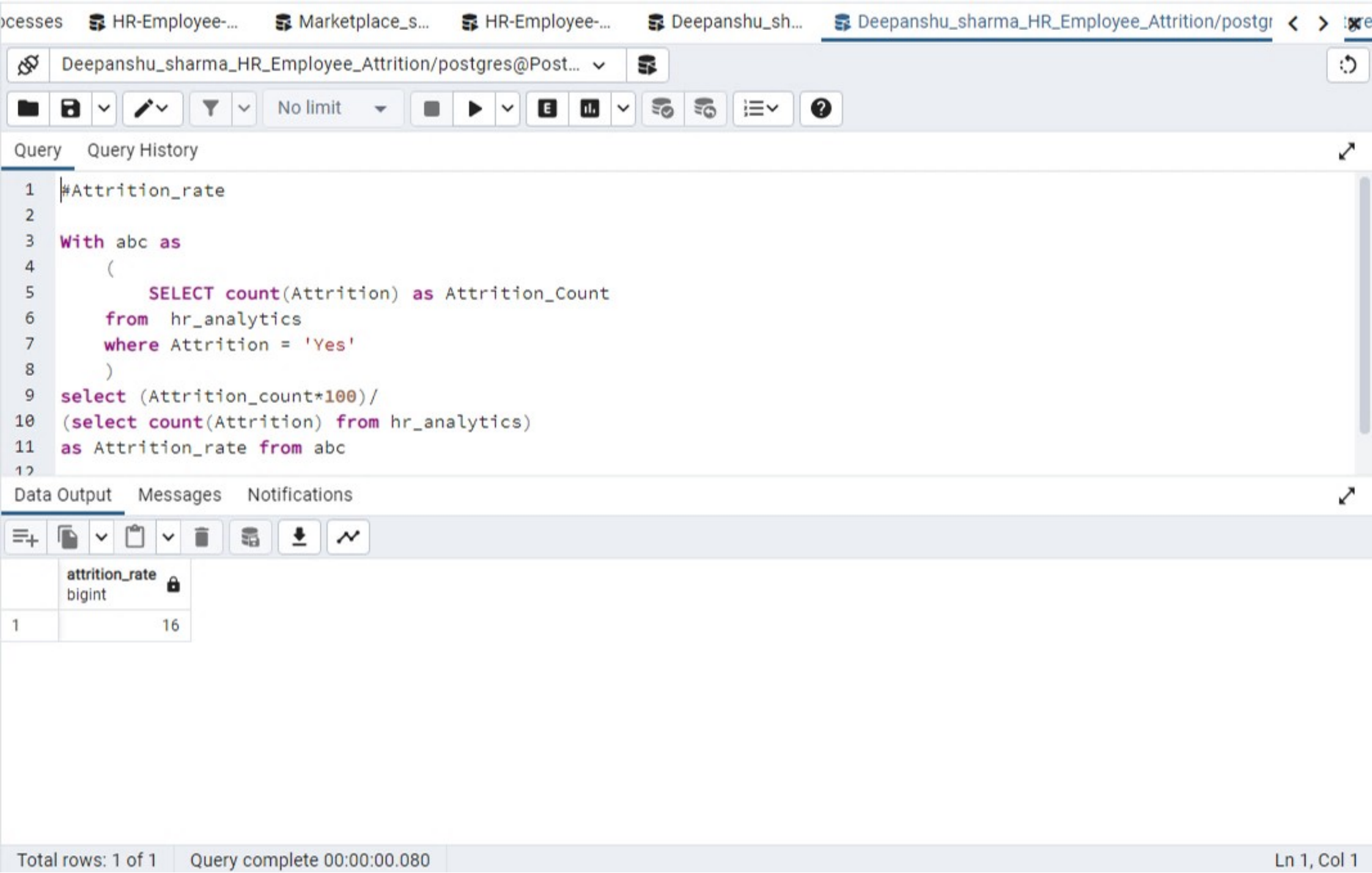
Query | Query History

```
1  #Attrition count
2
3
4  SELECT count(Attrition) as Attrition_Count from  hr_analytics
5  where Attrition = 'Yes'
6
```

Data Output | Messages | Notifications

	attrition_count bigint
1	237

Total rows: 1 of 1 | Query complete 00:00:00.154 | Ln 1, Col 1


ocesses
HR-Employee-...
Marketplace_s...
HR-Employee-...
Deepanshu_sh...
Deepanshu_sharma_HR_Employee_Attrition/postgr
Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...
No limit
Query
Query History
#Attrition_rate
With abc as
(
SELECT count(Attrition) as Attrition_Count
from hr_analytics
where Attrition = 'Yes'
)
select (Attrition_count*100)/
(select count(Attrition) from hr_analytics)
as Attrition_rate from abc
Data Output
Messages
Notifications
attrition_rate
bigint
1
16
Total rows: 1 of 1
Query complete 00:00:00.080
Ln 1, Col 1

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  #Average_age
2
3  Select cast(avg(age) as decimal (10,2))
4  as Average_age from hr_analytics
```

Data Output | Messages | Notifications

	average_age numeric (10,2)
1	36.92

Total rows: 1 of 1 | Query complete 00:00:00.086 | Ln 4, Col 33

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  #Average_MonthlyIncome
2
3  select  cast(avg(MonthlyIncome)
4  as decimal(10,2))
5  as Average_MonthlyIncome
6  from hr_analytics
7
```

Data Output | Messages | Notifications

	average_monthlyincome numeric (10,2)
1	6502.93

Total rows: 1 of 1 | Query complete 00:00:00.112 | Ln 5, Col 26

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

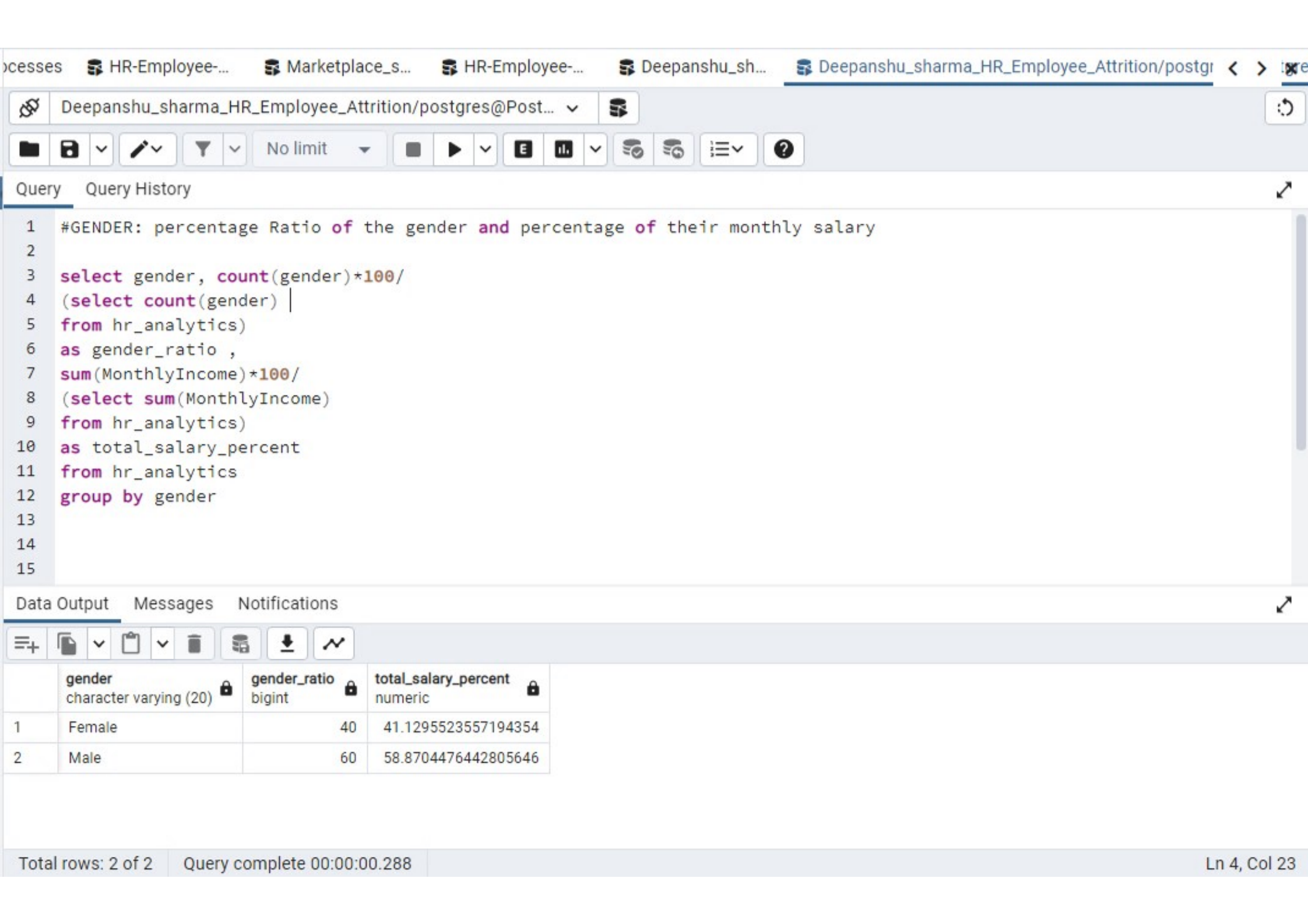
```
1  #Average_Salary_hike
2
3  select  cast(avg(PercentSalaryHike)
4  as decimal(10,2))
5  as Average_PercentSalaryHike
6  from hr_analytics
7
```

Data Output | Messages | Notifications

	average_percentsalaryhike numeric (10,2)
1	15.21

Successfully run. Total query runtime: 85 msec. 1 rows affected.

Total rows: 1 of 1 | Query complete 00:00:00.085 | Ln 6, Col 18


ocesses
HR-Employee-...
Marketplace_s...
HR-Employee-...
Deepanshu_sh...
Deepanshu_sharma_HR_Employee_Attrition/postgr
Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...
No limit
Query
Query History
1 #GENDER: percentage Ratio of the gender and percentage of their monthly salary
2
3 select gender, count(gender)*100/
4 (select count(gender)
5 from hr_analytics)
6 as gender_ratio ,
7 sum(MonthlyIncome)*100/
8 (select sum(MonthlyIncome)
9 from hr_analytics)
10 as total_salary_percent
11 from hr_analytics
12 group by gender
13
14
15
Data Output
Messages
Notifications
gender character varying (20)
gender_ratio bigint
total_salary_percent numeric
1 Female 40 41.1295523557194354
2 Male 60 58.8704476442805646
Total rows: 2 of 2
Query complete 00:00:00.288
Ln 4, Col 23

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```sql
#Marital Status: Marital Status ratio


select MaritalStatus,
count(MaritalStatus)*100/
(select count(MaritalStatus)
from hr_analytics) as
Marital_Status_ratio
from hr_analytics
group by MaritalStatus
```

Data Output | Messages | Notifications

	maritalstatus character varying (20)	marital_status_ratio bigint
1	Married	45
2	Divorced	22
3	Single	31

Total rows: 3 of 3 | Query complete 00:00:00.100 | Ln 11, Col 1

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  Education Field: top 3 Education Fields in the company
2
3
4  select EducationField, count(EducationField)
5  as total_count FROM hr_analytics
6  group by EducationField
7  order by total_count desc
8  limit 3
9
10
11
```

Data Output | Messages | Notifications

	educationfield character varying (50)	total_count bigint
1	Life Sciences	606
2	Medical	464
3	Marketing	159

Total rows: 3 of 3 | Query complete 00:00:00.107 | Ln 1, Col 2

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  Department: which Department is having maximum staff
2
3  select Department
4  , count(Department)
5  as total_employees FROM hr_analytics
6  group by Department
7  order by total_employees desc
8  limit 1
9
10
```

Data Output | Messages | Notifications

	department character varying (50)	total_employees bigint
1	Research & Development	961

Total rows: 1 of 1 | Query complete 00:00:00.207 | Ln 9, Col 1

ocesses | HR-Employee-... | Marketplace_s... | HR-Employee-... | Deepanshu_sh... | Deepanshu_sharma_HR_Employee_Attrition/postgr

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query | Query History

```
1  JOB ROLES: what are the top 3 profiles % of our total employees working within the company?
2
3  select JobRole,
4  count(JobRole)*100/
5  (select count(jobrole)
6  from hr_analytics)
7  as total_employees_percentage
8  FROM hr_analytics
9  group by JobRole
10 order by total_employees_percentage desc
11 limit 3
```

Data Output | Messages | Notifications

	jobrole character varying (50)	total_employees_percentage bigint
1	Sales Executive	22
2	Research Scientist	19
3	Laboratory Technician	17

Total rows: 3 of 3 | Query complete 00:00:00.109 | Ln 1, Col 1

Dashboard Properties SQL Statistics Dependencies Dependents Processes Deepanshu_sharma_HR_Employee_Attrition/postgres@Po

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query Query History

```sql
OVERTIME WORK: percentage of employees engagement in overtime

select overtime,
cast(cast(count(overtime)*100 as decimal(10,2))
/(select cast(count(overtime) as decimal(10,2))
from hr_analytics) as decimal(10,2))
as Employees_Overtime_percentage
from hr_analytics
group by overtime
```

Data Output Messages Notifications

	overtime character varying (10)	employees_overtime_percentage numeric (10,2)
1	No	71.70
2	Yes	28.30

Total rows: 2 of 2 Query complete 00:00:00.104 Ln 10, Col 1

Dashboard Properties SQL Statistics Dependencies Dependents Processes Deepanshu_sharma_HR_Employee_Attrition/postgres@Po

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

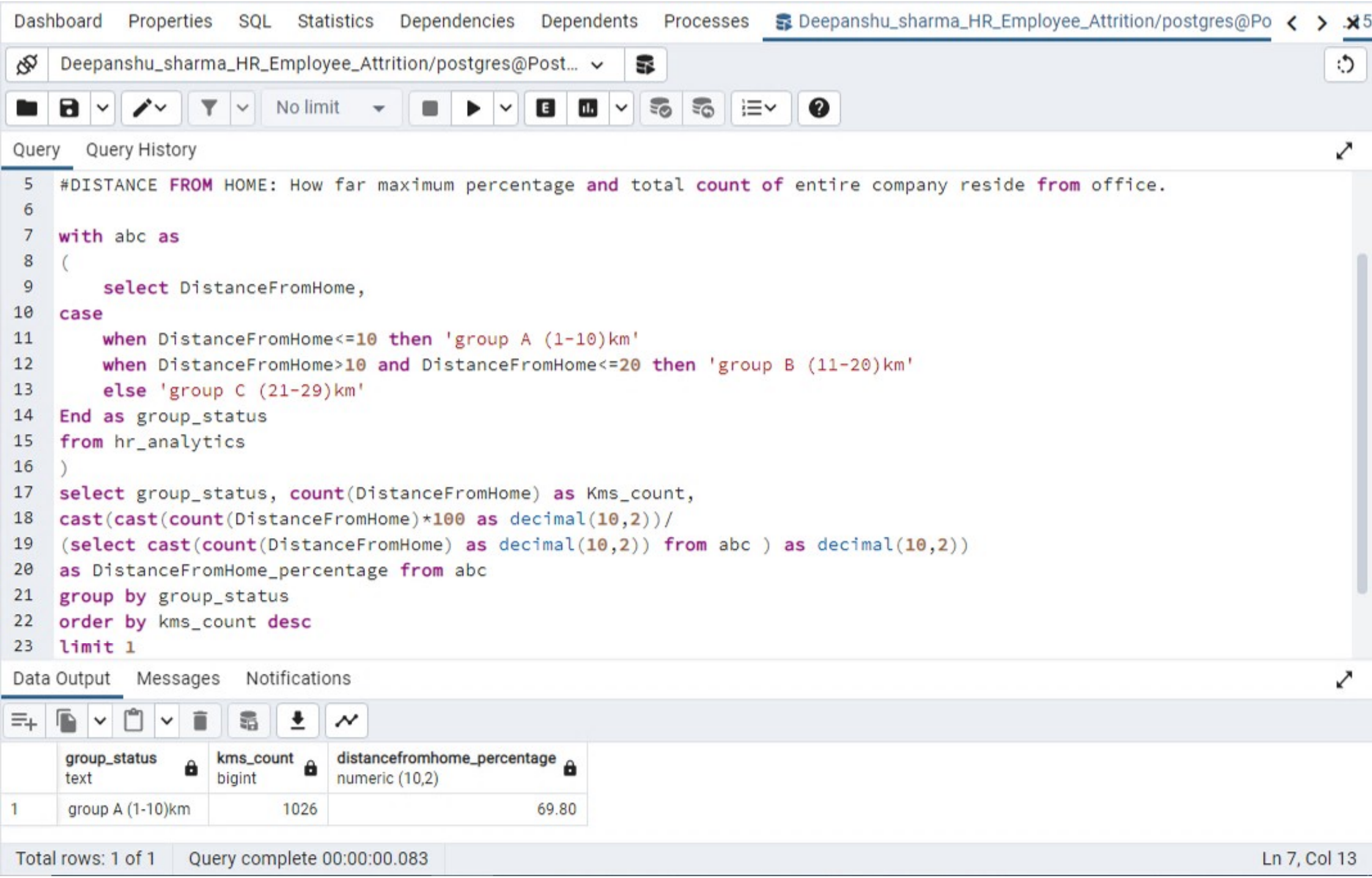
Query Query History

```
19  #Relation between Overtime and Age: --> I observed Age group of 31-40 displayed higher engagement in overtime
20
21  select age, count(age) as age_count
22  from hr_analytics
23  where OverTime = 'Yes'
24  group by age
25  order by age_count desc
26  limit 10
```

Data Output Messages Notifications

	age bigint	age_count bigint
1	35	26
2	31	20
3	29	19
4	38	18
5	33	18
6	34	17
7	37	16
8	36	16
9	40	15
10	42	15

Total rows: 10 of 10 Query complete 00:00:00.199 Ln 19, Col 37


Dashboard
Properties
SQL
Statistics
Dependencies
Dependents
Processes
Deepanshu_sharma_HR_Employee_Attrition/postgres@Po
Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...
No limit
Query
Query History
#DISTANCE FROM HOME: How far maximum percentage and total count of entire company reside from office.
with abc as
(
select DistanceFromHome,
case
when DistanceFromHome<=10 then 'group A (1-10)km'
when DistanceFromHome>10 and DistanceFromHome<=20 then 'group B (11-20)km'
else 'group C (21-29)km'
End as group_status
from hr_analytics
)
select group_status, count(DistanceFromHome) as Kms_count,
cast(cast(count(DistanceFromHome)*100 as decimal(10,2))/
(select cast(count(DistanceFromHome) as decimal(10,2)) from abc) as decimal(10,2))
as DistanceFromHome_percentage from abc
group by group_status
order by kms_count desc
limit 1
Data Output
Messages
Notifications
group_status
text
kms_count
bigint
distancefromhome_percentage
numeric (10,2)
1
group A (1-10)km
1026
69.80
Total rows: 1 of 1
Query complete 00:00:00.083
Ln 7, Col 13

Dashboard Properties SQL Statistics Dependencies Dependents Processes Deepanshu_sharma_HR_Employee_Attrition/postgres@Po

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query Query History

```sql
#Department with the highest total_attritian

select Department, count(Department) as Total_Attrition from hr_analytics
where Attrition = 'Yes'
group by Department
order by Total_Attrition desc
```

Data Output Messages Notifications

	department character varying (50)	total_attrition bigint
1	Research & Development	133
2	Sales	92
3	Human Resources	12

Total rows: 3 of 3 Query complete 00:00:00.103 Ln 1, Col 13

Dashboard Properties SQL Statistics Dependencies Dependents Processes Deepanshu_sharma_HR_Employee_Attrition/postgres@Po

Deepanshu_sharma_HR_Employee_Attrition/postgres@Post...

No limit

Query Query History

```sql
#JobRole: top 3 JobRoles with the highest total_attritian

select JobRole, count(JobRole) as Total_Attrition from hr_analytics
where Attrition = 'Yes'
group by JobRole
order by Total_Attrition desc
limit 3

```

Data Output Messages Notifications

	jobrole character varying (50)	total_attrition bigint
1	Laboratory Technician	62
2	Sales Executive	57
3	Research Scientist	47

Total rows: 3 of 3 | Query complete 00:00:00.120 | Ln 6, Col 30