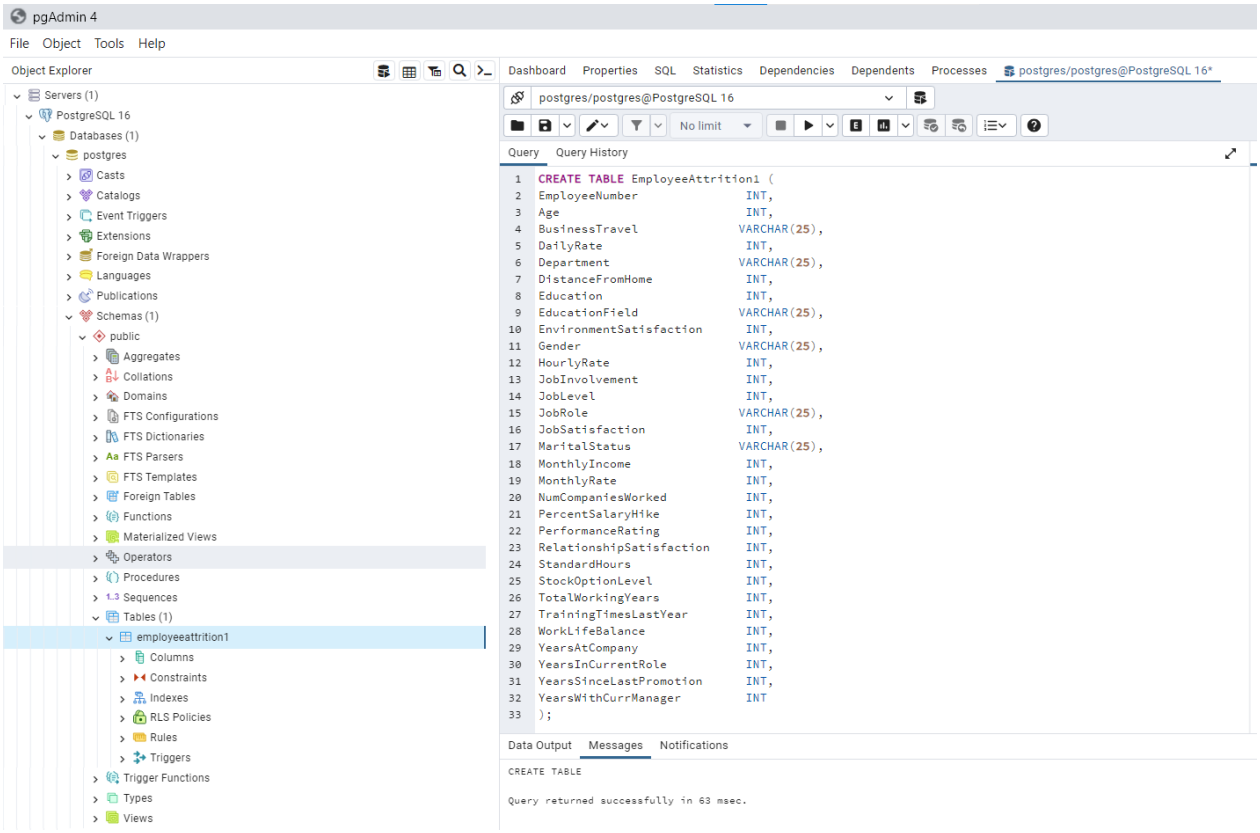
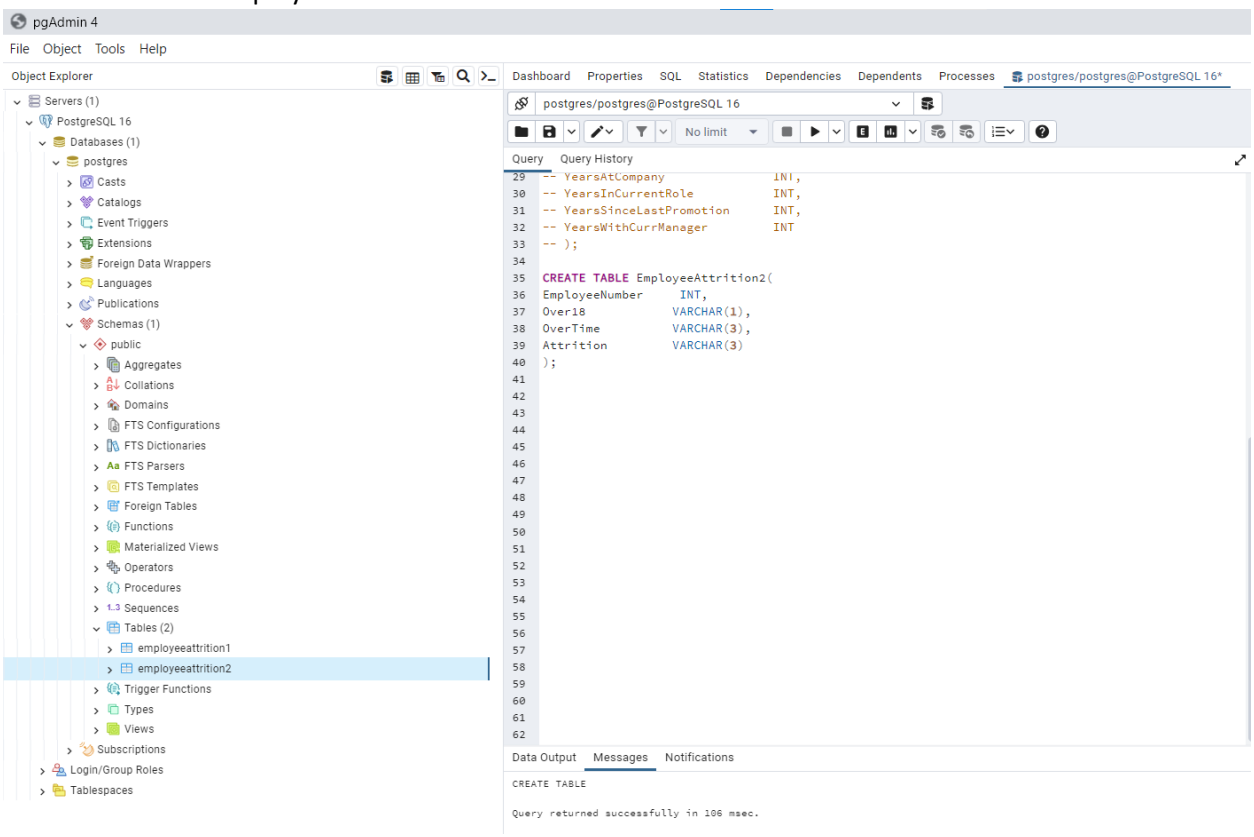
Create a SQL database and separate tables for both datasets EmployeeAttrition1.csv and EmployeeAttrition2.csv using a RDBMS (PostgreSQL preferred). You need to submit create table query as well in the final document.

Creation of Table EmployeeAtrittion1:

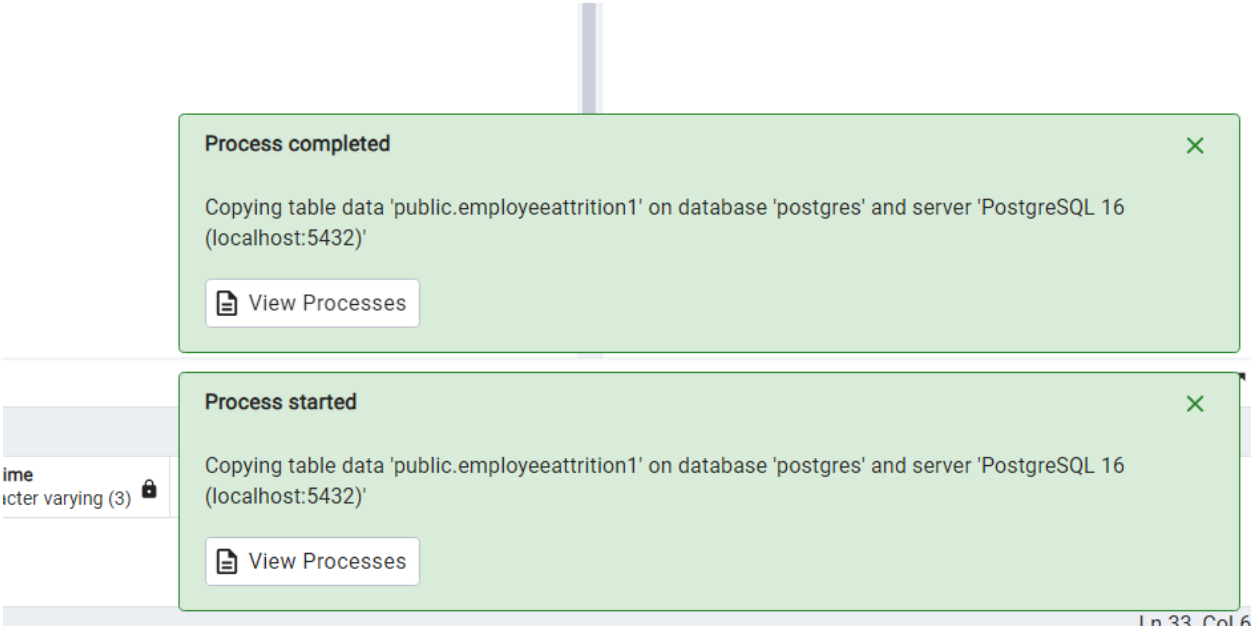


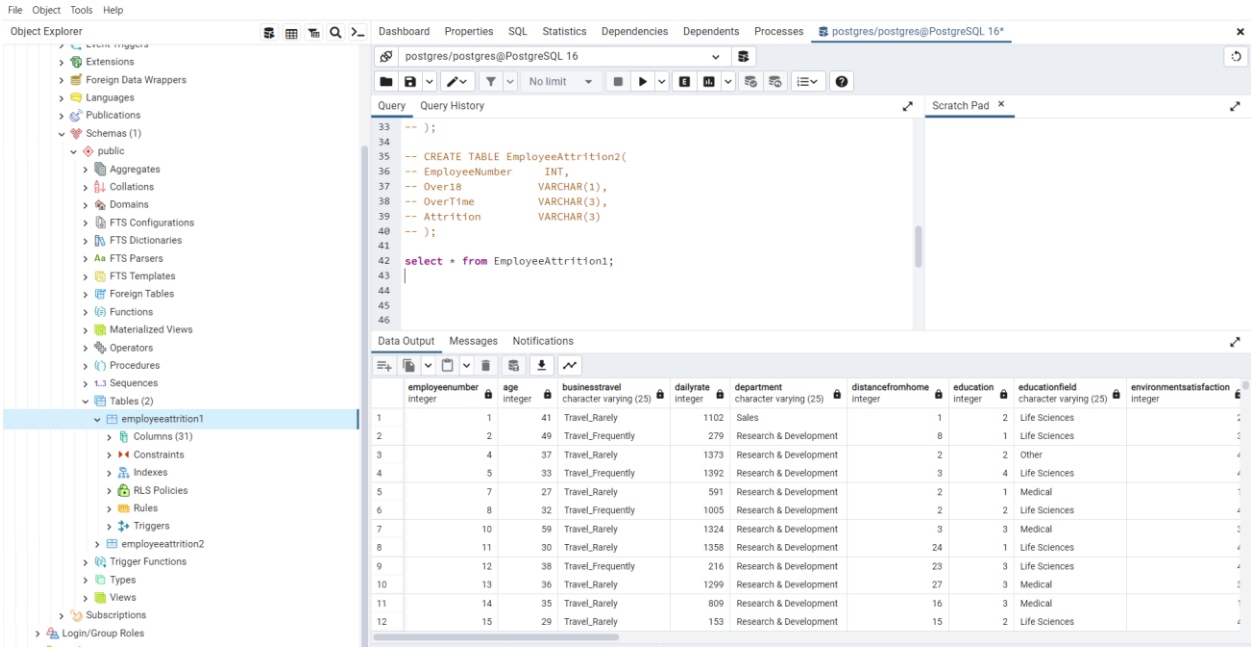
Creation of Table EmployeeAtrittion2:



Load/Import the dataset into the table.

Importing Data from CSV file:





character varying (3)

Process completed

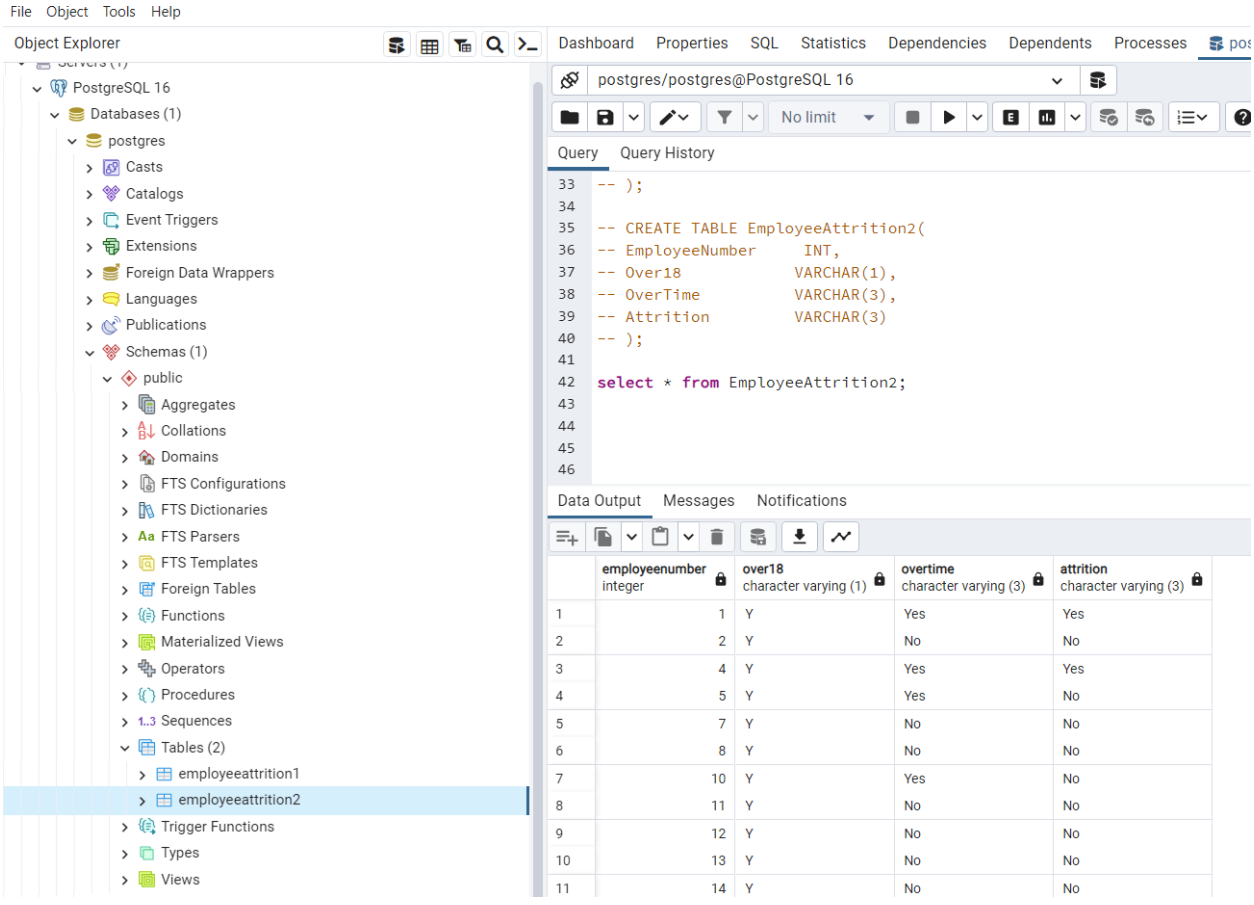
Copying table data 'public.employeeattrition2' on database 'postgres' and server 'PostgreSQL 16 (localhost:5432)'

View Processes

Process started

Copying table data 'public.employeeattrition2' on database 'postgres' and server 'PostgreSQL 16 (localhost:5432)'

View Processes



The count of total number of records in the table

```
41
42  select count(*) from EmployeeAttrition1;
43
44
```

Data Output | Messages | Notifications

	count bigint
1	1470

Successfully run. Total query runtime: 67 msec. 1 rows affected.

The count of records for each JobRole in descending order of count

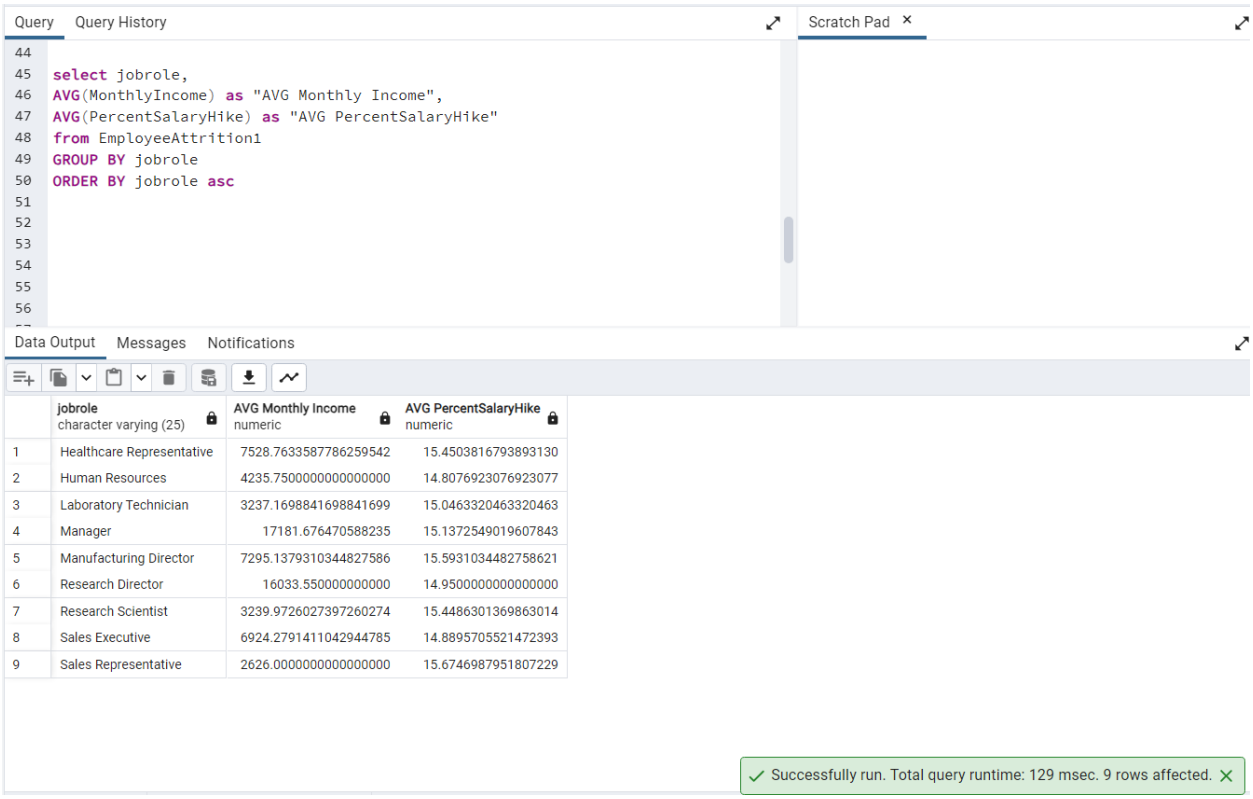
```
44
45  select jobrole, count(jobrole)
46  from EmployeeAttrition1
47  GROUP BY jobrole
48  ORDER BY count(jobrole) desc
49
50
51
52
53
54
55
56
```

Data Output | Messages | Notifications

	jobrole character varying (25)	count bigint
1	Sales Executive	326
2	Research Scientist	292
3	Laboratory Technician	259
4	Manufacturing Director	145
5	Healthcare Representative	131
6	Manager	102
7	Sales Representative	83
8	Research Director	80
9	Human Resources	52

Successfully run. Total query runtime: 85 msec. 9 rows affected.

The average MonthlyIncome and PercentSalaryHike for each JobRole in ascending order of JobRole



```
select jobrole,
AVG(MonthlyIncome) as "AVG Monthly Income",
AVG(PercentSalaryHike) as "AVG PercentSalaryHike"
from EmployeeAttrition1
GROUP BY jobrole
ORDER BY jobrole asc
```

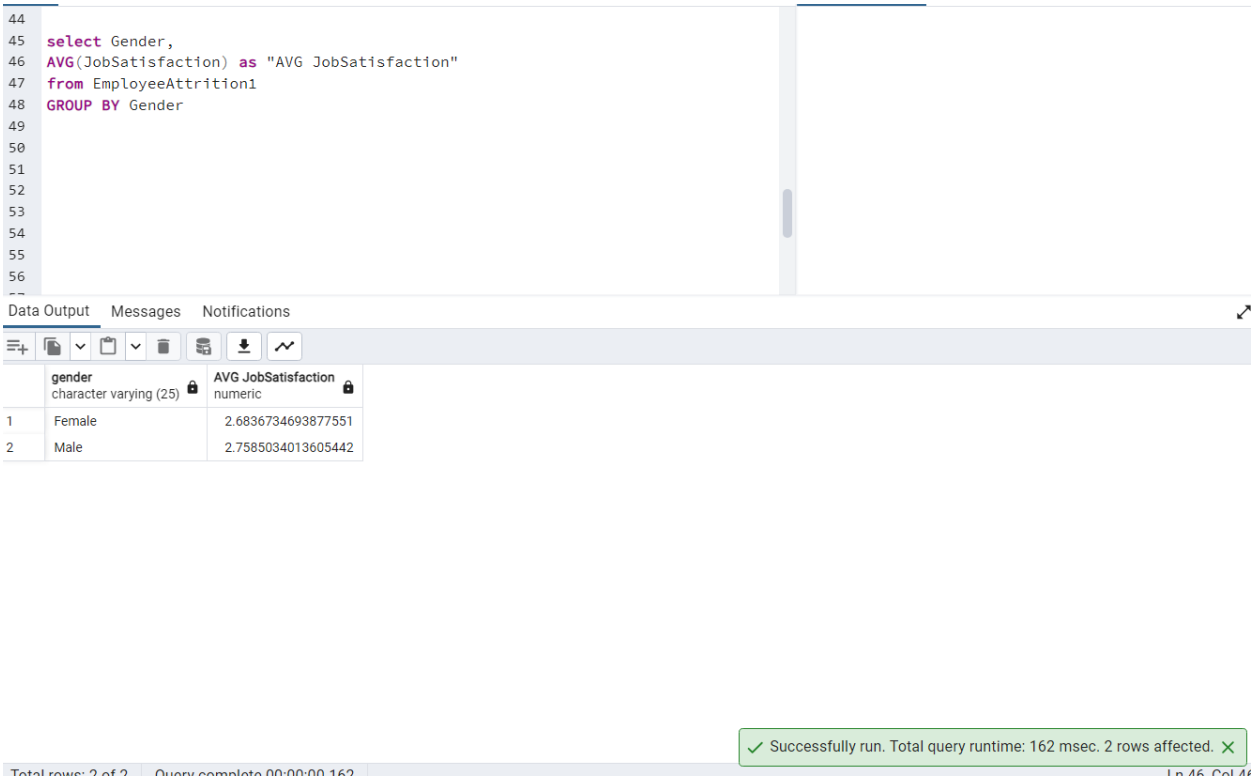
Query | Query History | Scratch Pad

Data Output | Messages | Notifications

	jobrole character varying (25)	AVG Monthly Income numeric	AVG PercentSalaryHike numeric
1	Healthcare Representative	7528.7633587786259542	15.4503816793893130
2	Human Resources	4235.7500000000000000	14.8076923076923077
3	Laboratory Technician	3237.1698841698841699	15.0463320463320463
4	Manager	17181.676470588235	15.1372549019607843
5	Manufacturing Director	7295.1379310344827586	15.5931034482758621
6	Research Director	16033.550000000000	14.9500000000000000
7	Research Scientist	3239.9726027397260274	15.4486301369863014
8	Sales Executive	6924.2791411042944785	14.8895705521472393
9	Sales Representative	2626.0000000000000000	15.6746987951807229

Successfully run. Total query runtime: 129 msec. 9 rows affected.

The average JobSatisfaction for each Gender and MaritalStatus



```
select Gender,
AVG(JobSatisfaction) as "AVG JobSatisfaction"
from EmployeeAttrition1
GROUP BY Gender
```

Data Output | Messages | Notifications

	gender character varying (25)	AVG JobSatisfaction numeric
1	Female	2.6836734693877551
2	Male	2.7585034013605442

Successfully run. Total query runtime: 162 msec. 2 rows affected.

```
44
45 select MaritalStatus,
46 AVG(JobSatisfaction) as "AVG JobSatisfaction"
47 from EmployeeAttrition1
48 GROUP BY MaritalStatus
49
50
51
52
53
54
55
56
```

Data Output | Messages | Notifications

	maritalstatus character varying (25)	AVG JobSatisfaction numeric
1	Married	2.7161961367013373
2	Divorced	2.6972477064220183
3	Single	2.7680851063829787

✓ Successfully run. Total query runtime: 150 msec. 3 rows affected.

```
44
45 select Gender, MaritalStatus,
46 AVG(JobSatisfaction) as "AVG JobSatisfaction"
47 from EmployeeAttrition1
48 GROUP BY Gender, MaritalStatus
49 Order BY Gender
50
51
52
53
54
55
56
```

Data Output | Messages | Notifications

	gender character varying (25)	maritalstatus character varying (25)	AVG JobSatisfaction numeric
1	Female	Divorced	2.5299145299145299
2	Female	Married	2.6838235294117647
3	Female	Single	2.7738693467336683
4	Male	Single	2.7638376383763838
5	Male	Divorced	2.7904761904761905
6	Male	Married	2.7381546134663342

✓ Successfully run. Total query runtime: 191 msec. 6 rows affected.

The range (Min and Max) of Age and HourlyRate for each JobRole

```
select JobRole,
Max(Age) as "Max Age",
Min(Age) as "Min Age",
Max(HourlyRate) as "Max HourlyRate",
Min(HourlyRate) as "Min HourlyRate"
from EmployeeAttrition1
GROUP BY JobRole
Order BY JobRole
```

Data Output | Messages | Notifications

	jobrole character varying (25)	Max Age integer	Min Age integer	Max HourlyRate integer	Min HourlyRate integer
1	Healthcare Representative	60	24	100	30
2	Human Resources	59	19	100	31
3	Laboratory Technician	59	18	100	30
4	Manager	60	30	99	30
5	Manufacturing Director	59	22	100	30
6	Research Director	58	27	99	30
7	Research Scientist	59	18	100	30
8	Sales Executive	60	24	100	30
9	Sales Representative	53	18	100	30

Successfully run. Total query runtime: 236 msec. 9 rows affected.

Join two tables for EmployeeAttrition1.csv and EmployeeAttrition2.csv and display 20 records with the following columns ▪ EmployeeNumber, Age, Gender, JobRole, OverTime and Attrition

Query | Query History

Scratch Pad

```
select a.EmployeeNumber, a.Age, a.Gender, a.JobRole, b.OverTime, b.Attrition
from EmployeeAttrition1 as a, EmployeeAttrition2 as b
where a.EmployeeNumber = b.EmployeeNumber
fetch first 20 rows only
```

Data Output | Messages | Notifications

	employeenumber integer	age integer	gender character varying (25)	jobrole character varying (25)	overtime character varying (3)	attrition character varying (3)
1	1	41	Female	Sales Executive	Yes	Yes
2	2	49	Male	Research Scientist	No	No
3	4	37	Male	Laboratory Technician	Yes	Yes
4	5	33	Female	Research Scientist	Yes	No
5	7	27	Male	Laboratory Technician	No	No
6	8	32	Male	Laboratory Technician	No	No
7	10	59	Female	Laboratory Technician	Yes	No
8	11	30	Male	Laboratory Technician	No	No
9	12	38	Male	Manufacturing Director	No	No
10	13	36	Male	Healthcare Representative	No	No
11	14	35	Male	Laboratory Technician	No	No
12	15	29	Female	Laboratory Technician	Yes	No
13	16	31	Male	Research Scientist	No	No
14	18	34	Male	Laboratory Technician	No	No
15	19	28	Male	Laboratory Technician	Yes	Yes
16	20	29	Female	Manufacturing Director	No	No
17	21	32	Male	Research Scientist	Yes	No
18	22	22	Male	Laboratory Technician	Yes	No
19	23	53	Female	Manager	No	No
20	24	38	Male	Research Scientist	Yes	No

Successfully run. Total query runtime: 84 msec. 20 rows affected.