

Creating an SQL Database for “Employee Attrition 1”

```
1  create table EmployeeAttrition1(
2      EmployeeNumber int,
3      Age int,
4      BusinessTravel varchar(32),
5      DailyRate int,
6      Department varchar(32),
7      DistanceFromHome int,
8      Education int,
9      EducationField varchar(32),
10     EnvironmentSatisfaction int,
11     Gender varchar(32),
```

Importing the dataset onto the table and finally getting this result:

	employeeNumber integer	age integer	businessTravel character varying (32)	dailyRate integer	department character varying (32)
1	1	41	Travel_Rarely	1102	Sales
2	2	49	Travel_Frequently	279	Research & Development
3	4	37	Travel_Rarely	1373	Research & Development
4	5	33	Travel_Frequently	1392	Research & Development
5	7	27	Travel_Rarely	591	Research & Development
6	8	32	Travel_Frequently	1005	Research & Development
7	10	59	Travel_Rarely	1324	Research & Development
8	11	30	Travel_Rarely	1358	Research & Development
9	12	38	Travel_Frequently	216	Research & Development
10	13	36	Travel_Rarely	1299	Research & Development
11	14	35	Travel_Rarely	809	Research & Development
12	15	29	Travel_Rarely	153	Research & Development
13	16	31	Travel_Rarely	670	Research & Development
14	18	34	Travel_Rarely	1346	Research & Development
15	19	28	Travel_Rarely	103	Research & Development
16	20	20	Travel_Rarely	1200	Research & Development

Total rows: 1000 of 1470

Query complete 00:00:01.084

Ln 35, Col 33

Creating an SQL Database for “Employee Attrition 2”

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37  create table employeeattrition2(  

38      EmployeeNumber      int,  

39      Over18              varchar(32),  

40      Overtime             varchar(32),  

41      Attrition            varchar(32)  

42  );  

43

```

Importing the dataset onto the table and finally getting this result:

	employeeNumber integer	over18 character varying (32)	overtime character varying (32)	Attrition character varying (32)
1		1 Y	Yes	Yes
2		2 Y	No	No
3		4 Y	Yes	Yes
4		5 Y	Yes	No
5		7 Y	No	No
6		8 Y	No	No
7		10 Y	Yes	No
8		11 Y	No	No
9		12 Y	No	No
10		13 Y	No	No
11		14 Y	No	No
12		15 Y	Yes	No
13		16 Y	No	No
14		18 Y	No	No
15		19 Y	Yes	Yes
16		20 Y	No	No

Total rows: 1000 of 1470 Query complete 00:00:00.341 Ln 44, Col 1

Q1

```

46  --1
47  select count(*) from employeeattrition1;
48

```

Data Output Messages Notifications

	count bigint
1	1470

Q2

	jobrole character varying (32) 	recordcount 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

Q3

	jobrole character varying (32) 	avg double precision 	avg double precision 
1	Healthcare Representative	7528.763358778626	15.450381679389313
2	Human Resources	4235.75	14.807692307692308
3	Laboratory Technician	3237.169884169884	15.046332046332047
4	Manager	17181.676470588234	15.137254901960784
5	Manufacturing Director	7295.137931034483	15.593103448275862
6	Research Director	16033.55	14.95
7	Research Scientist	3239.972602739726	15.448630136986301
8	Sales Executive	6924.2791411042945	14.889570552147239
9	Sales Representative	2626	15.674698795180722

Q4

	gender character varying (32)	maritalstatus character varying (32)	avg numeric
1	Female	Divorced	2.5299145299145299
2	Female	Married	2.6838235294117647
3	Male	Single	2.7638376383763838
4	Male	Divorced	2.7904761904761905
5	Male	Married	2.7381546134663342
6	Female	Single	2.7738693467336683

Q5

	jobrole character varying (32)	minimumage integer	maximumage integer	minimumhourlyrate integer	maximumhourlyrate integer
1	Manager	30	60	30	99
2	Research Scientist	18	59	30	100
3	Healthcare Representative	24	60	30	100
4	Human Resources	19	59	31	100
5	Laboratory Technician	18	59	30	100
6	Manufacturing Director	22	59	30	100
7	Sales Representative	18	53	30	100
8	Sales Executive	24	60	30	100
9	Research Director	27	58	30	99

Q6

	employeenumber integer	age integer	gender character varying (32)	jobrole character varying (32)	overtime character varying (32)	attrition character varying (32)
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

Total rows: 20 of 20 Query complete 00:00:00.189