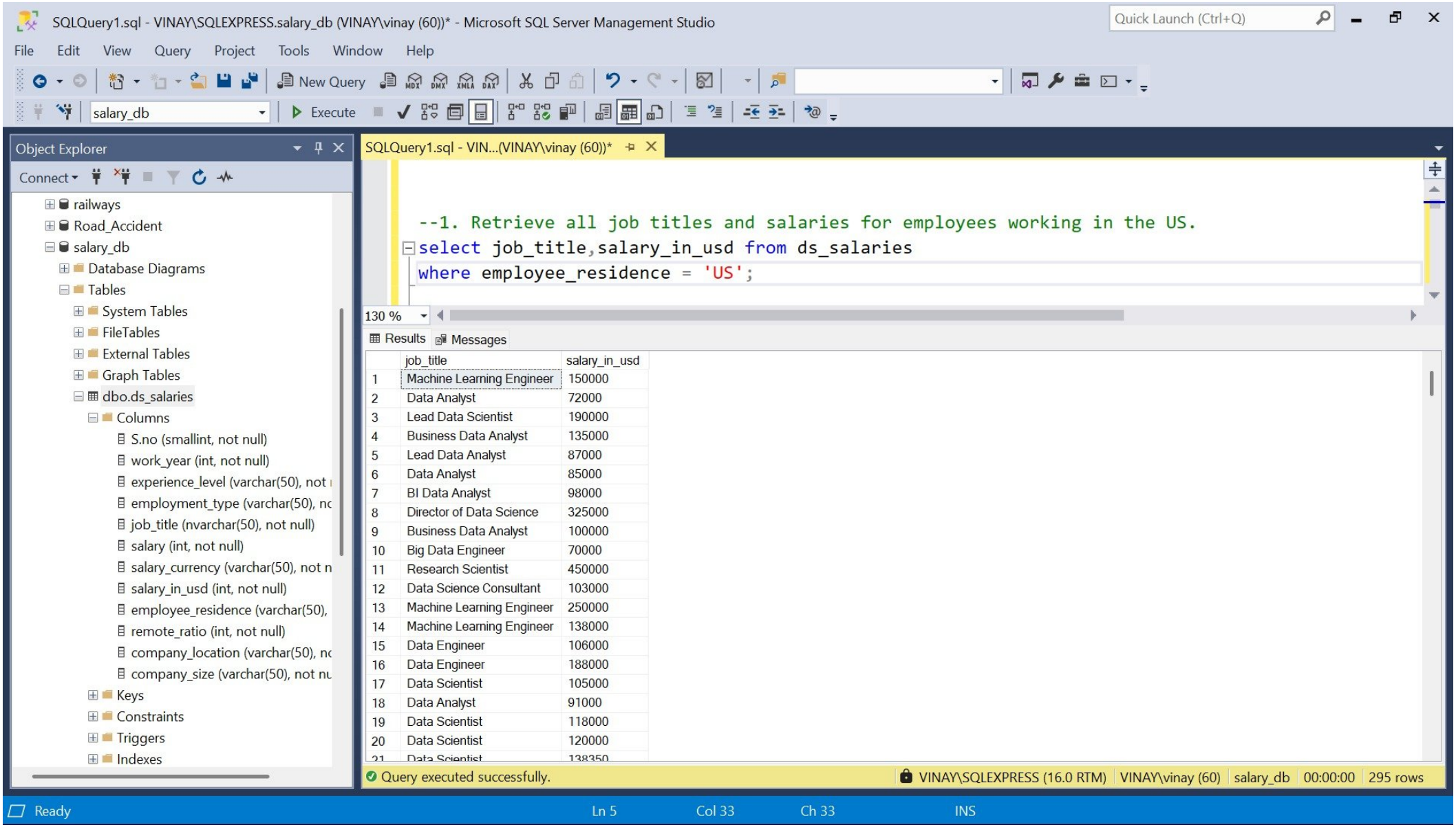
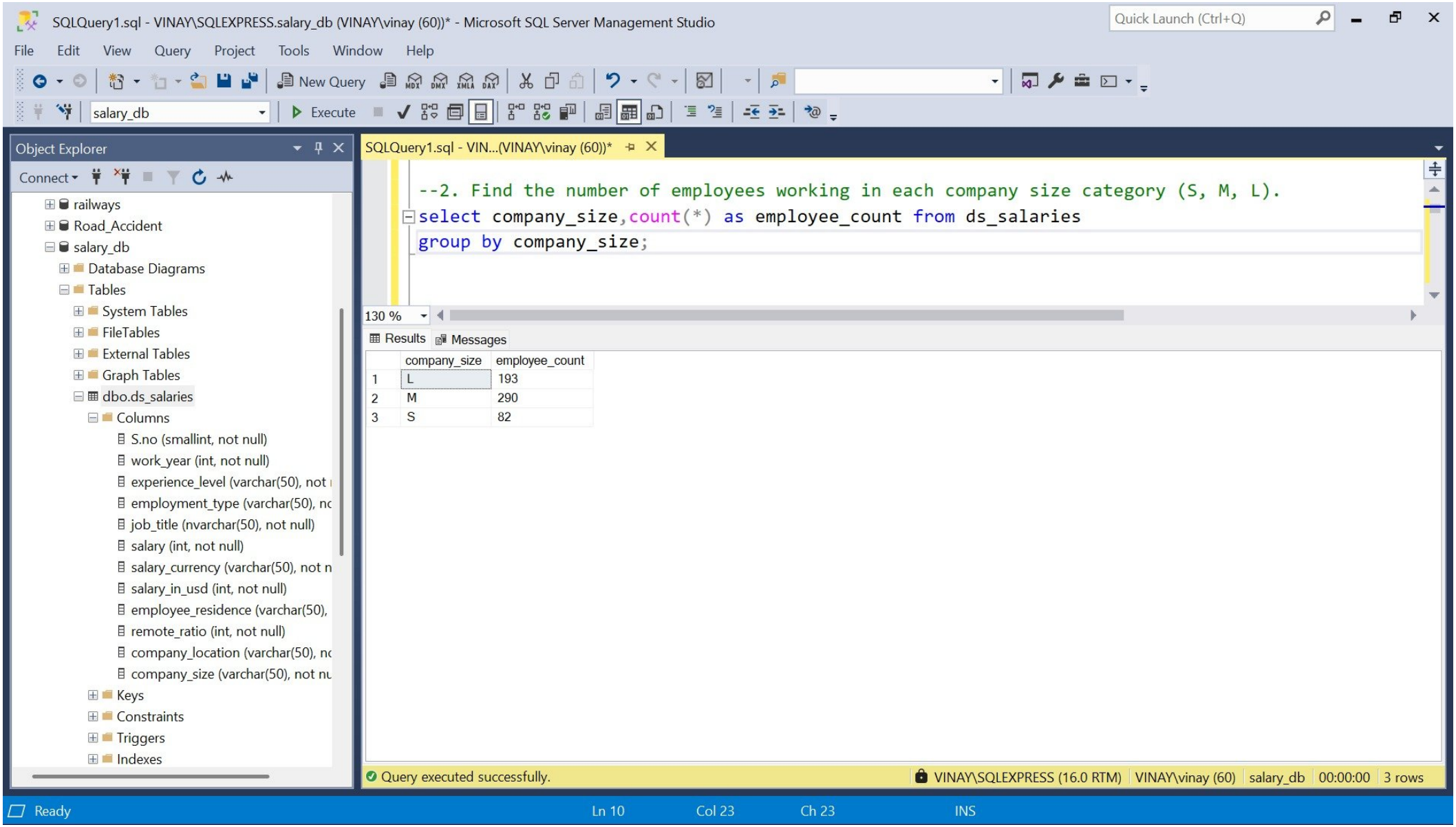
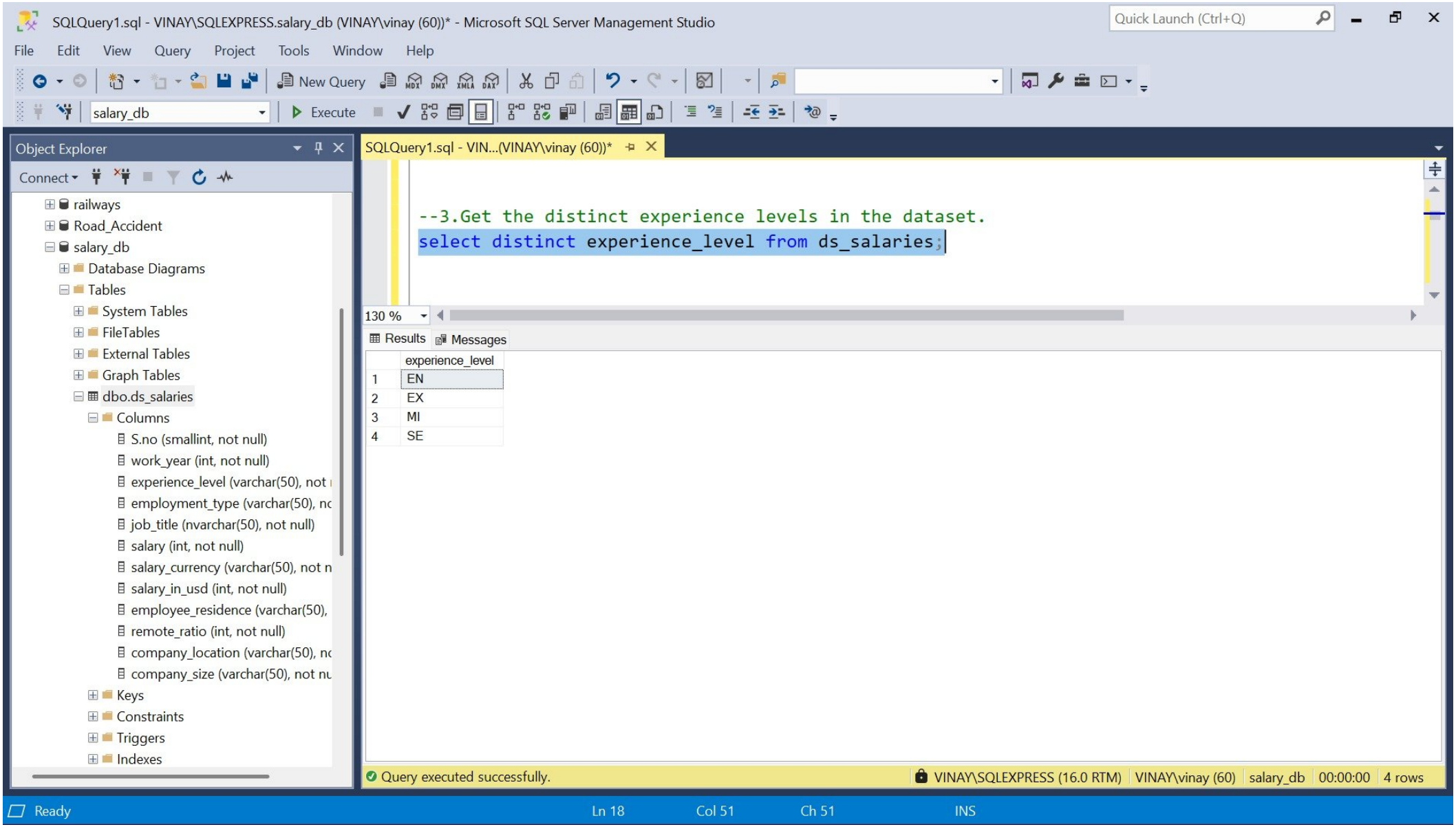

SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--1. Retrieve all job titles and salaries for employees working in the US.
select job_title,salary_in_usd from ds_salaries
where employee_residence = 'US';
130 %
Results
Messages
job_title
salary_in_usd
1 Machine Learning Engineer 150000
2 Data Analyst 72000
3 Lead Data Scientist 190000
4 Business Data Analyst 135000
5 Lead Data Analyst 87000
6 Data Analyst 85000
7 BI Data Analyst 98000
8 Director of Data Science 325000
9 Business Data Analyst 100000
10 Big Data Engineer 70000
11 Research Scientist 450000
12 Data Science Consultant 103000
13 Machine Learning Engineer 250000
14 Machine Learning Engineer 138000
15 Data Engineer 106000
16 Data Engineer 188000
17 Data Scientist 105000
18 Data Analyst 91000
19 Data Scientist 118000
20 Data Scientist 120000
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
295 rows
Ready
Ln 5
Col 33
Ch 33
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--2. Find the number of employees working in each company size category (S, M, L).
select company_size,count(*) as employee_count from ds_salaries
group by company_size;
130 %
Results
Messages
company_size
employee_count
1 L 193
2 M 290
3 S 82
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
3 rows
Ready
Ln 10
Col 23
Ch 23
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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New Query
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Road_Accident
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Tables
System Tables
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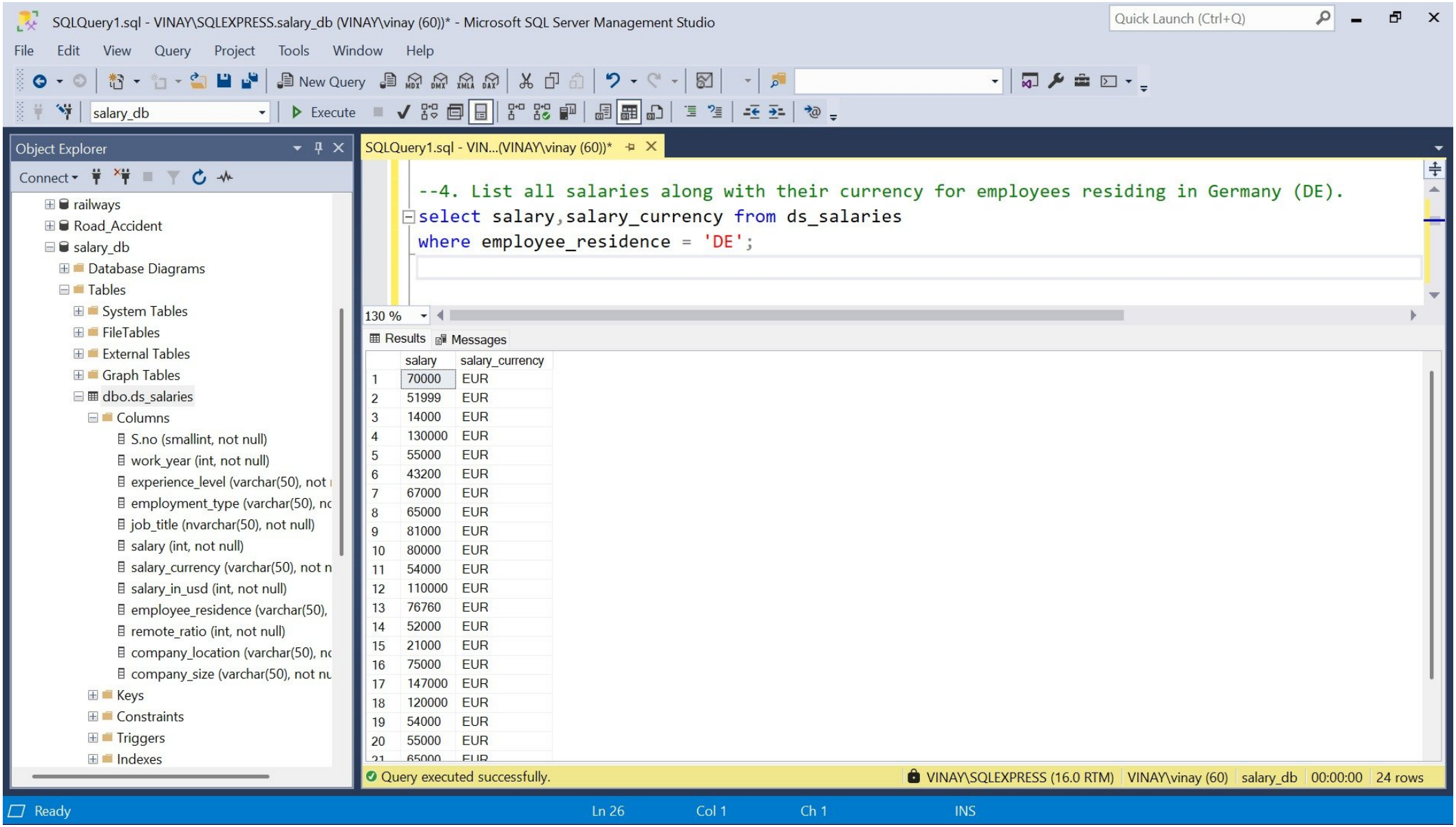
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--3.Get the distinct experience levels in the dataset.
select distinct experience_level from ds_salaries;
130 %
Results
Messages
experience_level
1 EN
2 EX
3 MI
4 SE
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
4 rows
Ready
Ln 18
Col 51
Ch 51
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
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Tables
System Tables
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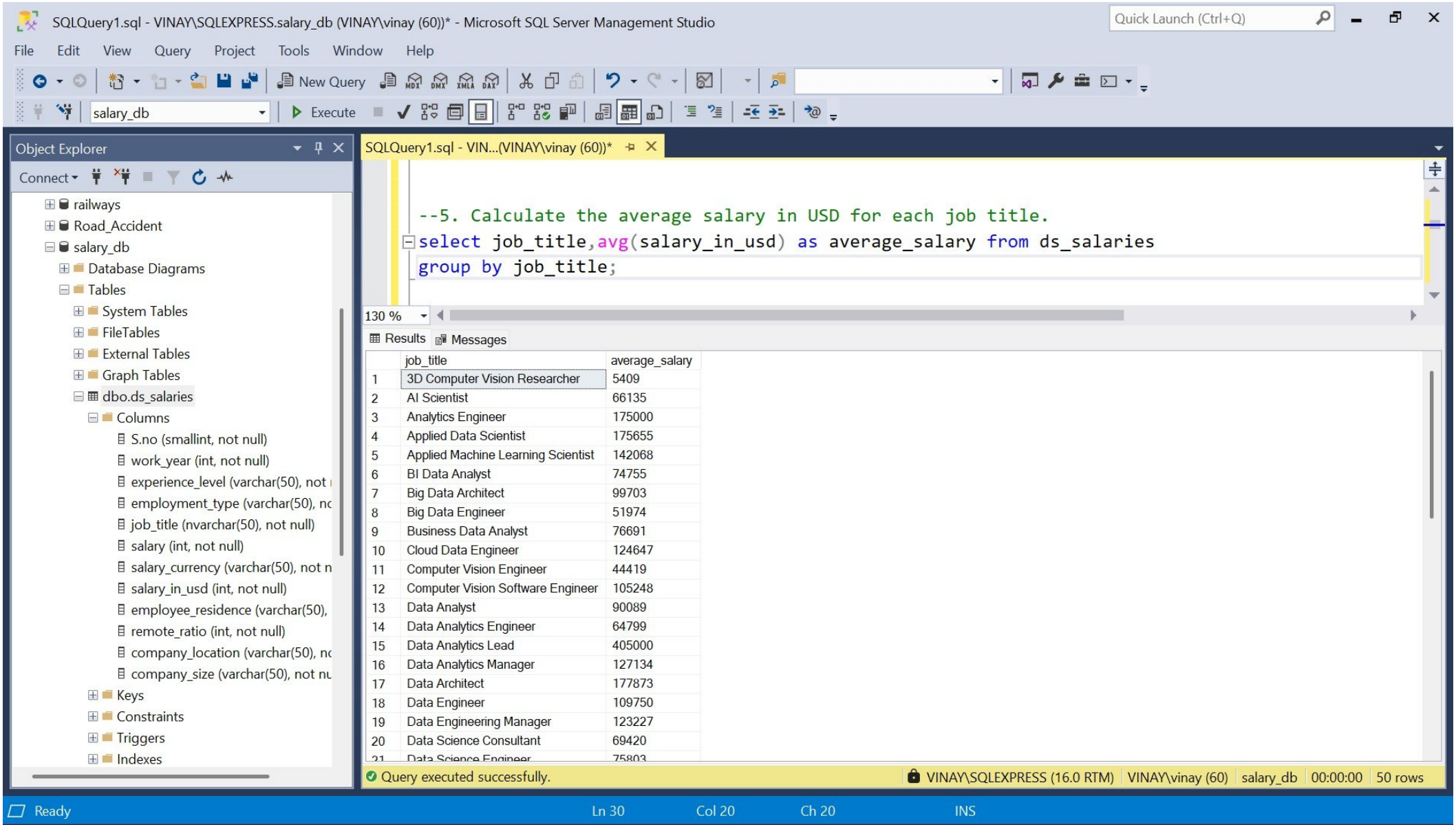
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--4. List all salaries along with their currency for employees residing in Germany (DE).
select salary,salary_currency from ds_salaries
where employee_residence = 'DE';
130 %
Results
Messages
salary salary_currency
1 70000 EUR
2 51999 EUR
3 14000 EUR
4 130000 EUR
5 55000 EUR
6 43200 EUR
7 67000 EUR
8 65000 EUR
9 81000 EUR
10 80000 EUR
11 54000 EUR
12 110000 EUR
13 76760 EUR
14 52000 EUR
15 21000 EUR
16 75000 EUR
17 147000 EUR
18 120000 EUR
19 54000 EUR
20 55000 EUR
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
24 rows
Ready
Ln 26
Col 1
Ch 1
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
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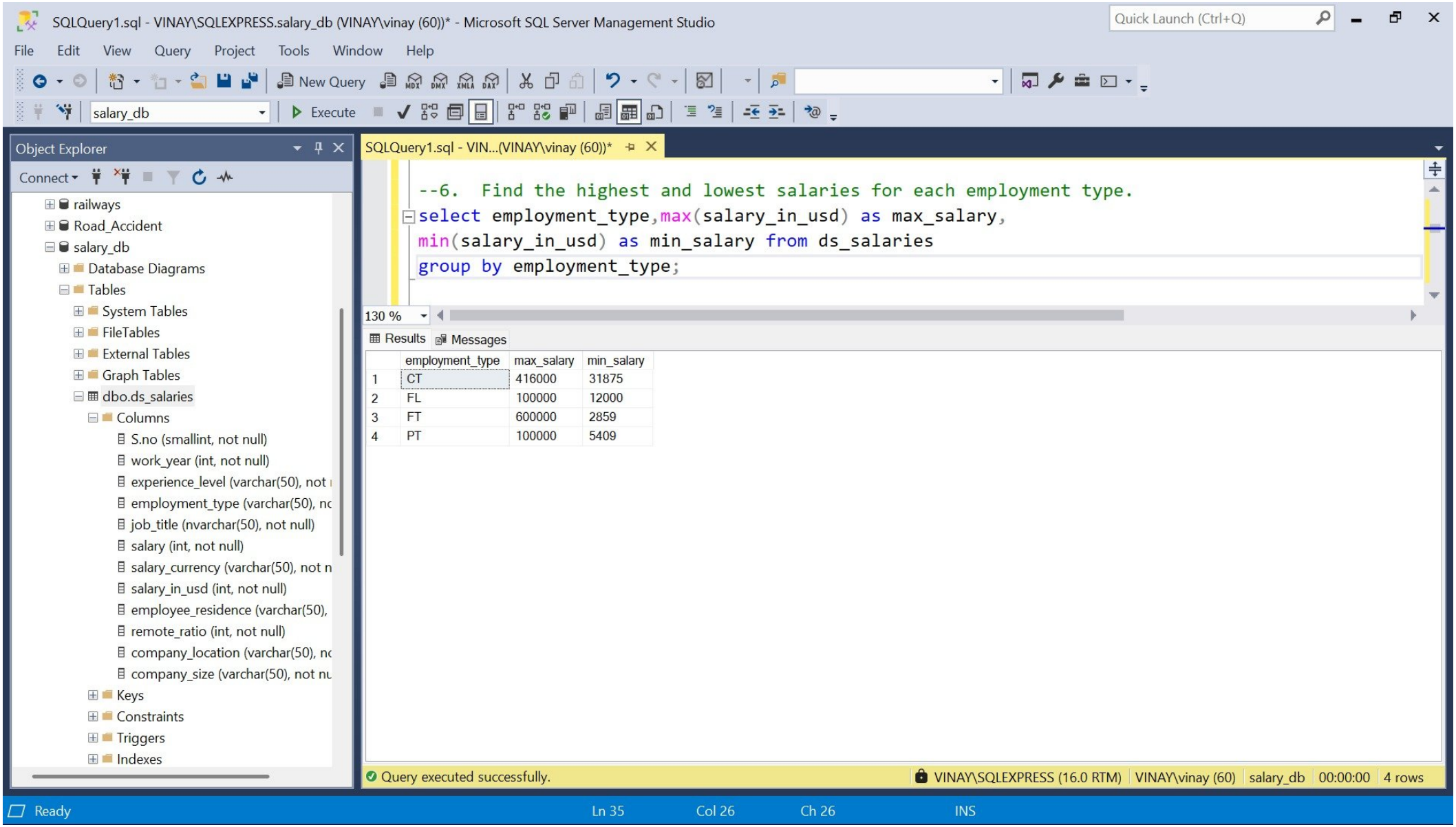
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--5. Calculate the average salary in USD for each job title.
select job_title,avg(salary_in_usd) as average_salary from ds_salaries
group by job_title;
130 %
Results
Messages
job_title
average_salary
1 3D Computer Vision Researcher 5409
2 AI Scientist 66135
3 Analytics Engineer 175000
4 Applied Data Scientist 175655
5 Applied Machine Learning Scientist 142068
6 BI Data Analyst 74755
7 Big Data Architect 99703
8 Big Data Engineer 51974
9 Business Data Analyst 76691
10 Cloud Data Engineer 124647
11 Computer Vision Engineer 44419
12 Computer Vision Software Engineer 105248
13 Data Analyst 90089
14 Data Analytics Engineer 64799
15 Data Analytics Lead 405000
16 Data Analytics Manager 127134
17 Data Architect 177873
18 Data Engineer 109750
19 Data Engineering Manager 123227
20 Data Science Consultant 69420
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
50 rows
Ready
Ln 30
Col 20
Ch 20
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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salary_db
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railways
Road_Accident
salary_db
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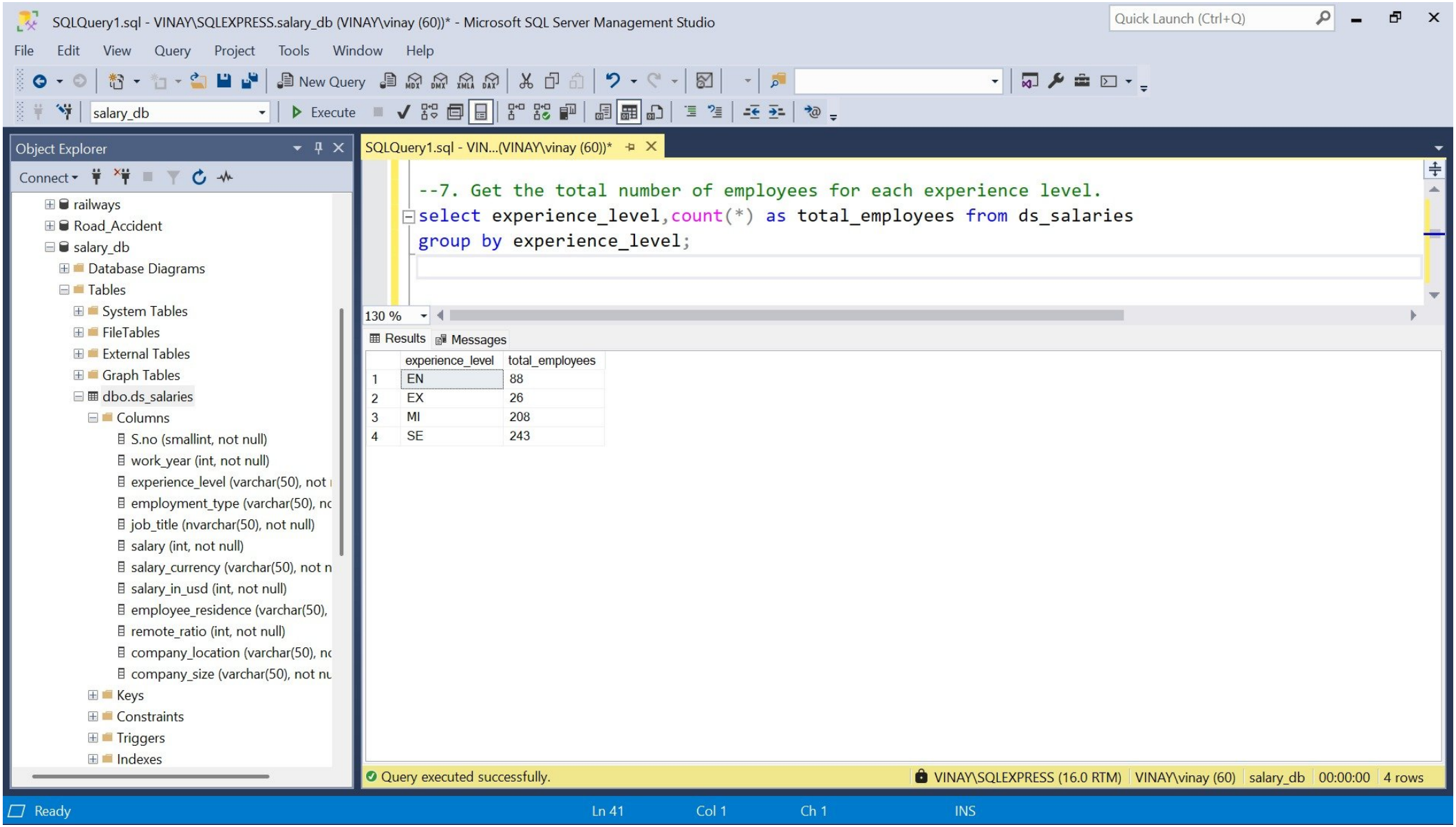
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--6. Find the highest and lowest salaries for each employment type.
select employment_type,max(salary_in_usd) as max_salary,
min(salary_in_usd) as min_salary from ds_salaries
group by employment_type;
130 %
Results
Messages
employment_type max_salary min_salary
1 CT 416000 31875
2 FL 100000 12000
3 FT 600000 2859
4 PT 100000 5409
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
4 rows
Ready
Ln 35
Col 26
Ch 26
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
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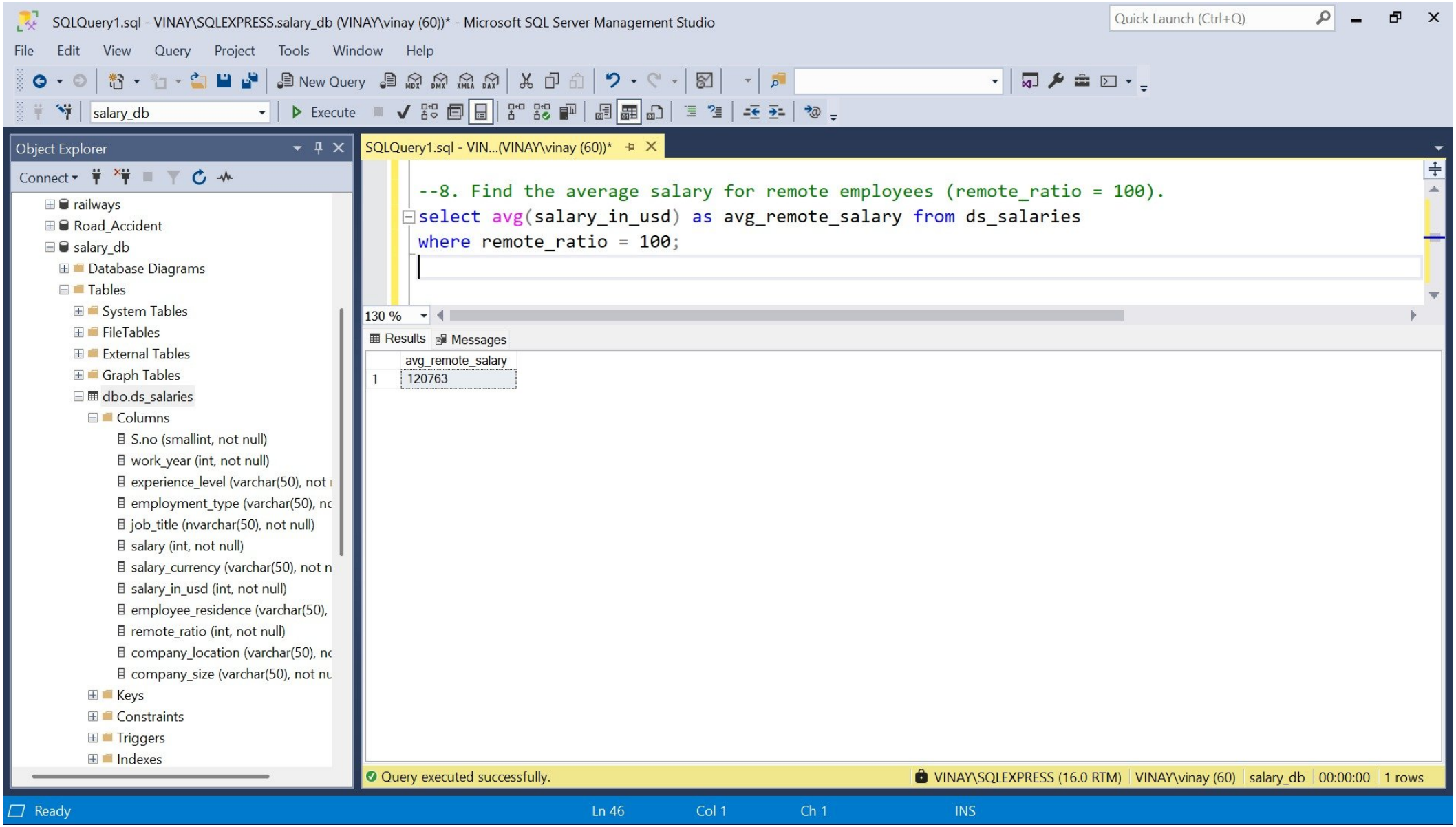
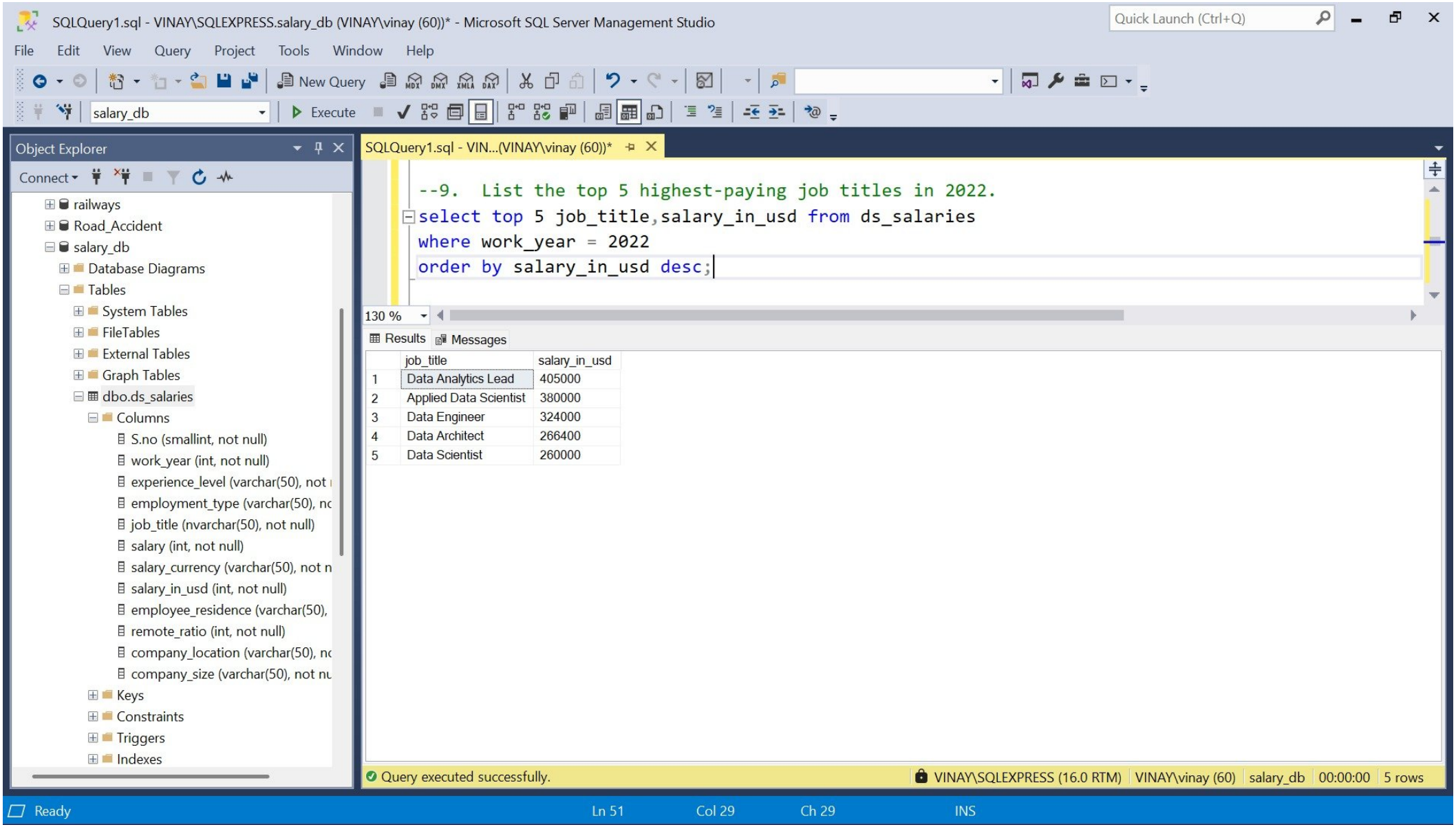
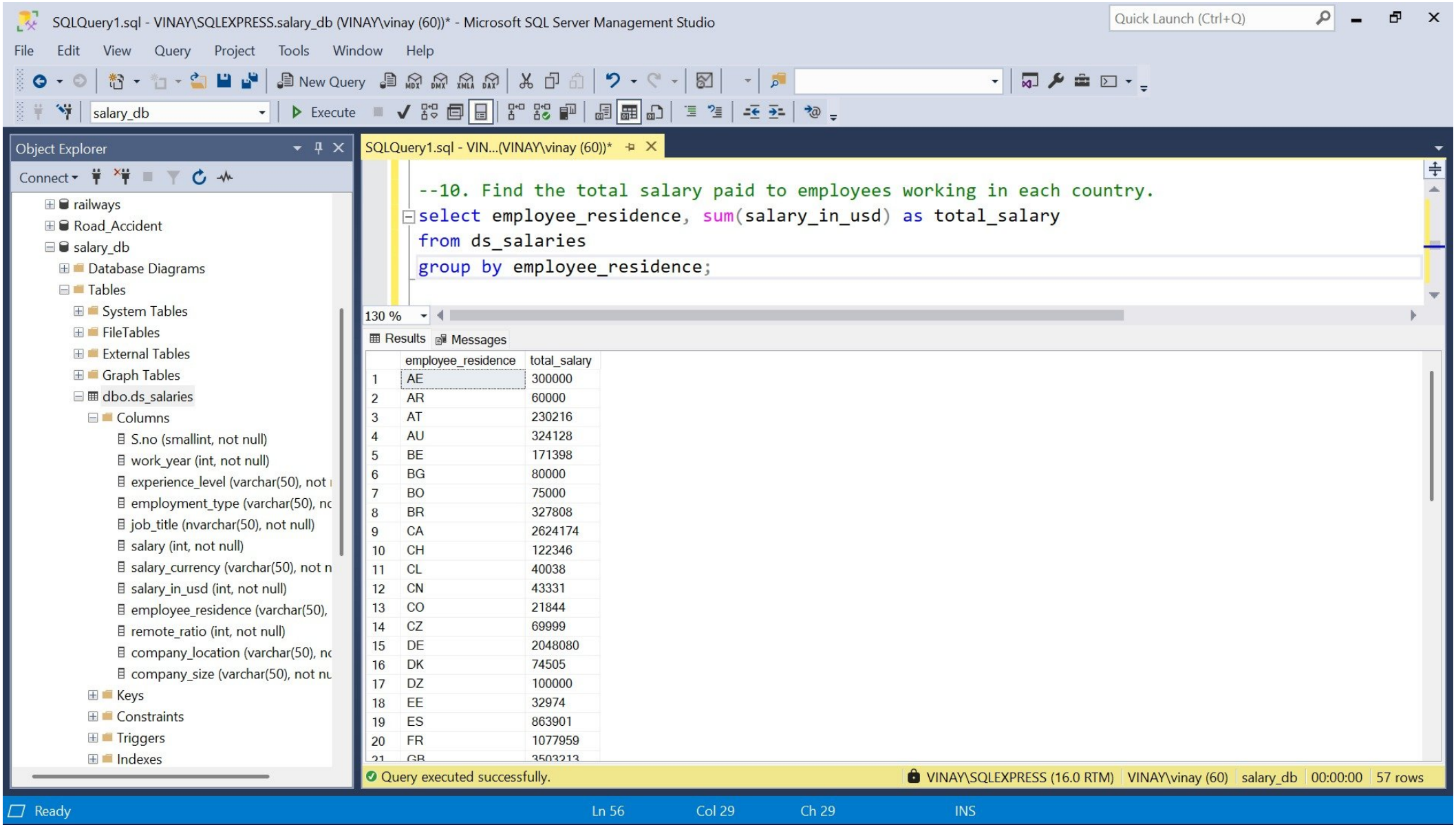
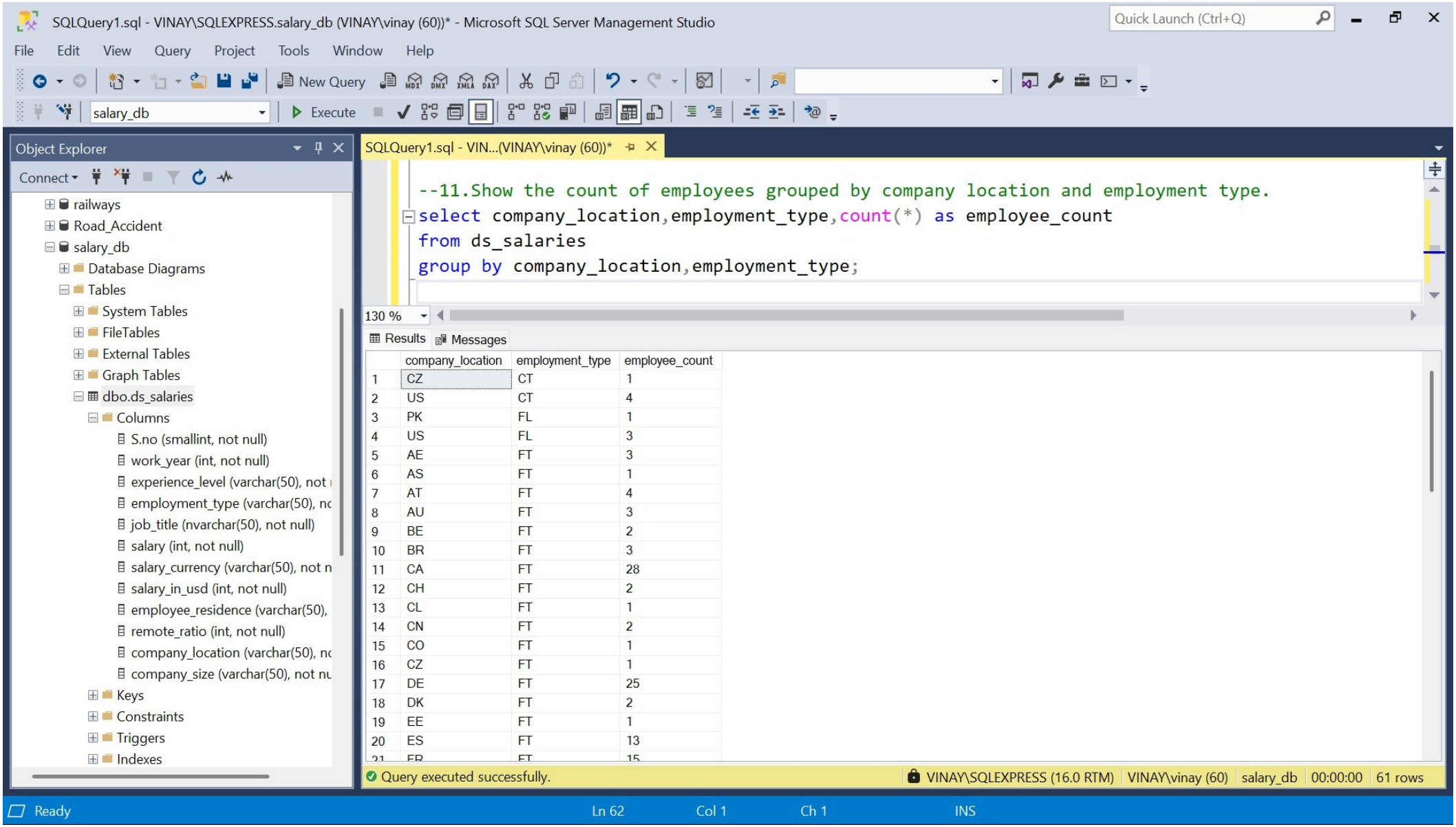
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--7. Get the total number of employees for each experience level.
select experience_level,count(*) as total_employees from ds_salaries
group by experience_level;
130 %
Results
Messages
experience_level
total_employees
1 EN 88
2 EX 26
3 MI 208
4 SE 243
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
4 rows
Ready
Ln 41
Col 1
Ch 1
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--8. Find the average salary for remote employees (remote_ratio = 100).
select avg(salary_in_usd) as avg_remote_salary from ds_salaries
where remote_ratio = 100;
130 %
Results
Messages
avg_remote_salary
1
120763
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
1 rows
Ready
Ln 46
Col 1
Ch 1
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--9. List the top 5 highest-paying job titles in 2022.
select top 5 job_title,salary_in_usd from ds_salaries
where work_year = 2022
order by salary_in_usd desc;
130 %
Results
Messages
job_title salary_in_usd
1 Data Analytics Lead 405000
2 Applied Data Scientist 380000
3 Data Engineer 324000
4 Data Architect 266400
5 Data Scientist 260000
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
5 rows
Ready
Ln 51
Col 29
Ch 29
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--10. Find the total salary paid to employees working in each country.
select employee_residence, sum(salary_in_usd) as total_salary
from ds_salaries
group by employee_residence;
130 %
Results
Messages
employee_residence total_salary
1 AE 300000
2 AR 60000
3 AT 230216
4 AU 324128
5 BE 171398
6 BG 80000
7 BO 75000
8 BR 327808
9 CA 2624174
10 CH 122346
11 CL 40038
12 CN 43331
13 CO 21844
14 CZ 69999
15 DE 2048080
16 DK 74505
17 DZ 100000
18 EE 32974
19 ES 863901
20 FR 1077959
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (60) salary_db 00:00:00 57 rows
Ready
Ln 56 Col 29 Ch 29 INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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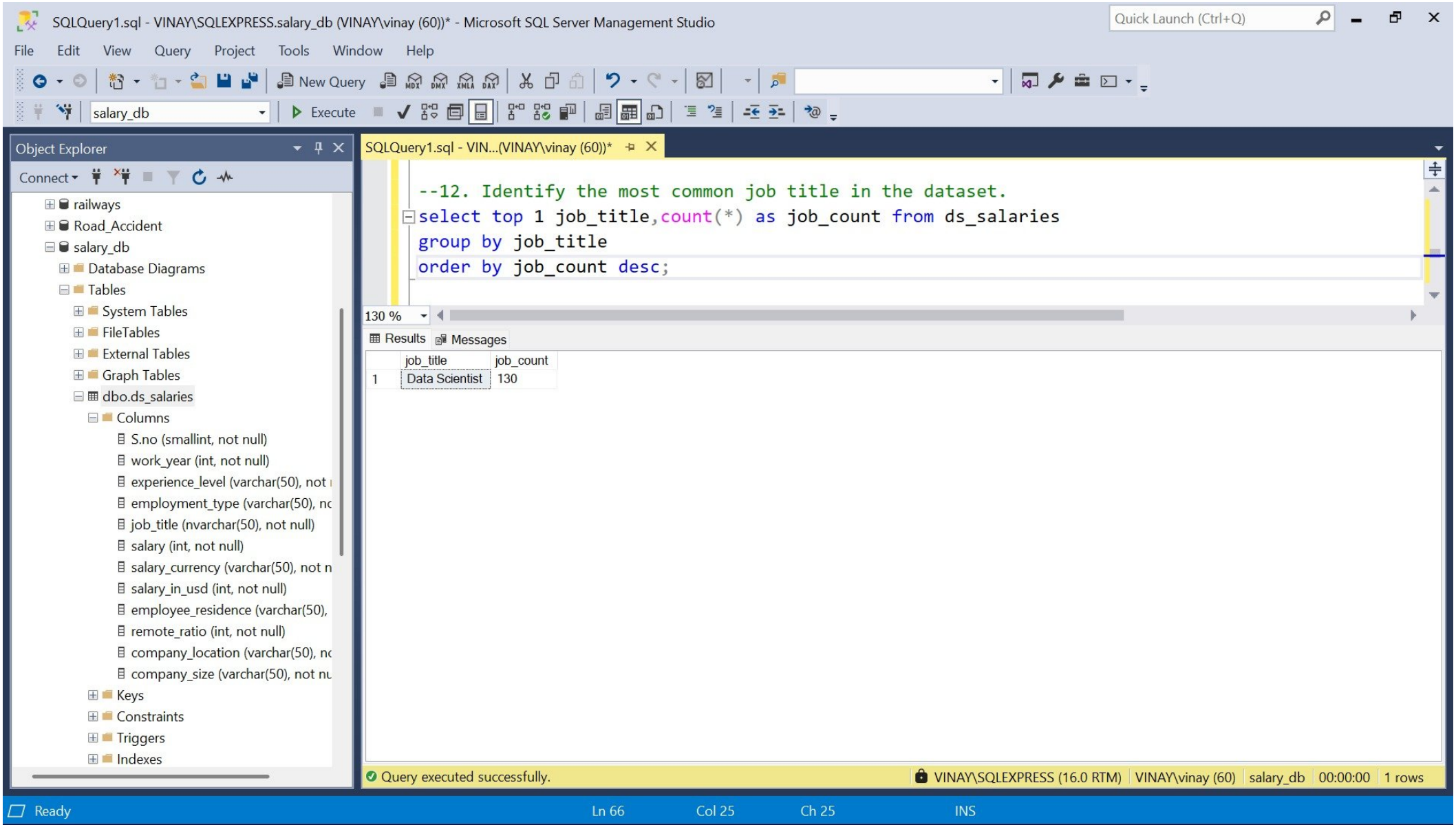
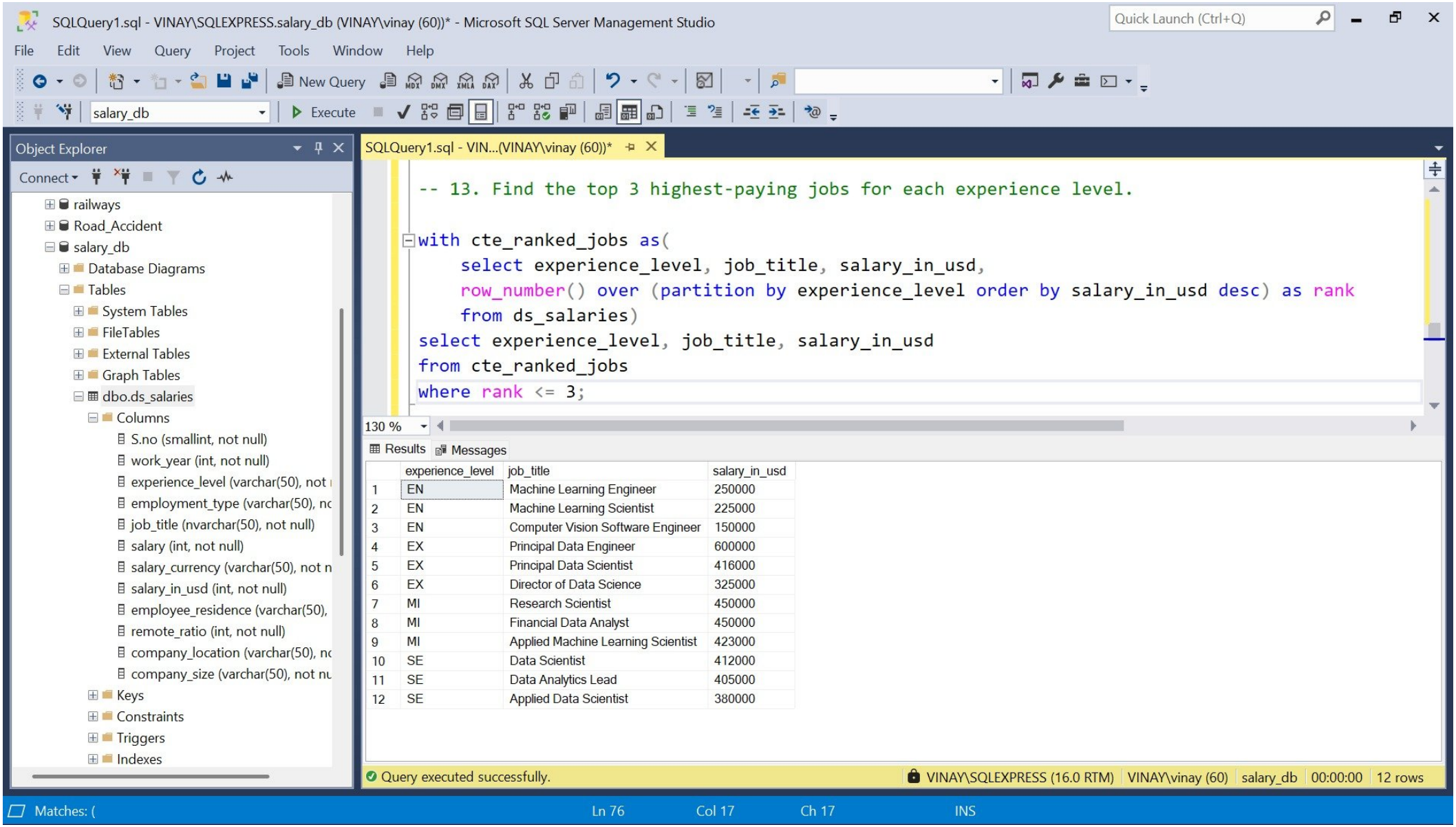
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--11.Show the count of employees grouped by company location and employment type.
select company_location,employment_type,count(*) as employee_count
from ds_salaries
group by company_location,employment_type;
130 %
Results
Messages
company_location employment_type employee_count
1 CZ CT 1
2 US CT 4
3 PK FL 1
4 US FL 3
5 AE FT 3
6 AS FT 1
7 AT FT 4
8 AU FT 3
9 BE FT 2
10 BR FT 3
11 CA FT 28
12 CH FT 2
13 CL FT 1
14 CN FT 2
15 CO FT 1
16 CZ FT 1
17 DE FT 25
18 DK FT 2
19 EE FT 1
20 ES FT 13
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
61 rows
Ready
Ln 62
Col 1
Ch 1
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
Connect
railways
Road_Accident
salary_db
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--12. Identify the most common job title in the dataset.
select top 1 job_title,count(*) as job_count from ds_salaries
group by job_title
order by job_count desc;
130 %
Results
Messages
job_title
job_count
1
Data Scientist
130
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
1 rows
Ready
Ln 66
Col 25
Ch 25
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
salary_db
Execute
Object Explorer
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railways
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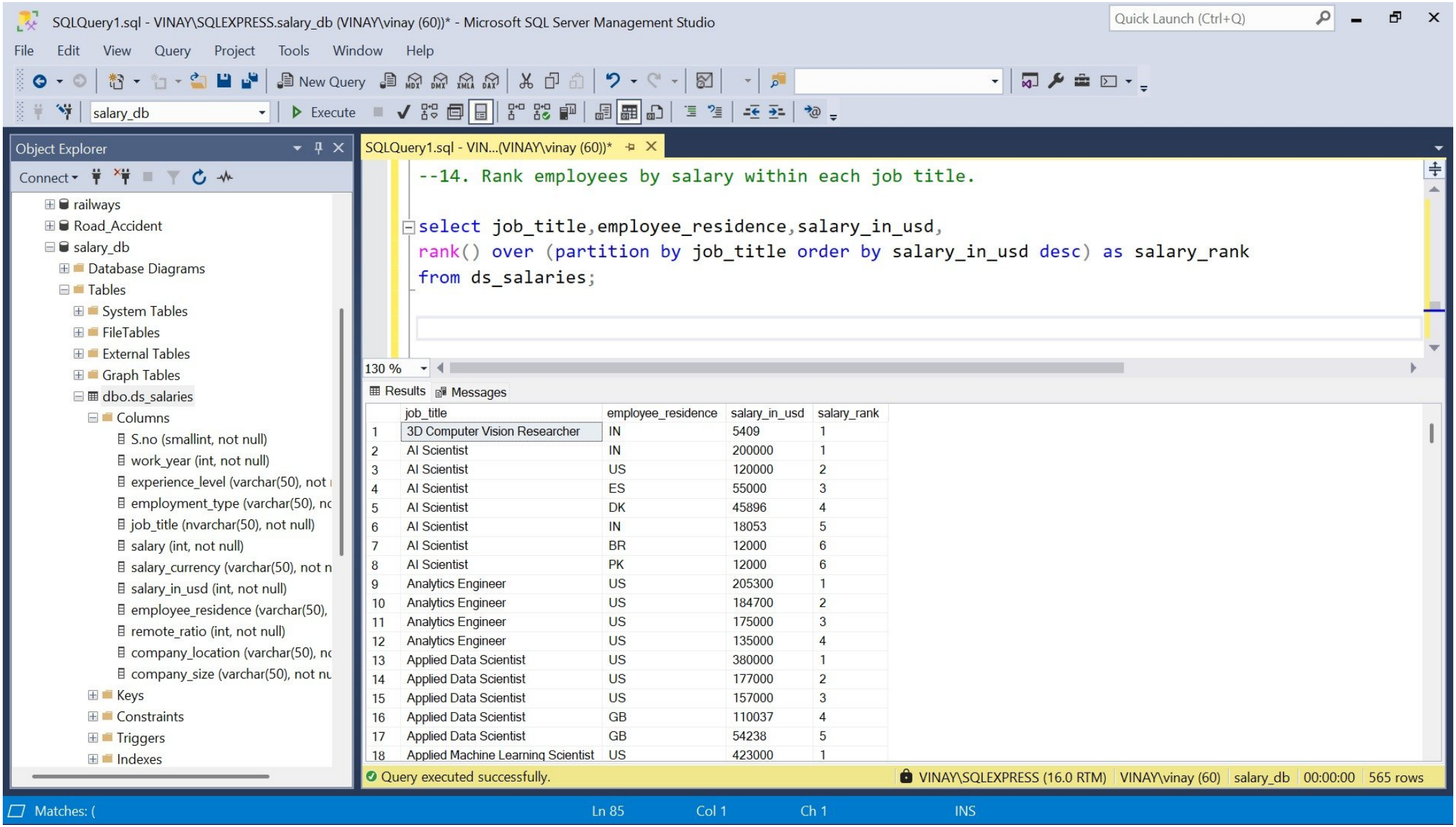
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.ds_salaries
Columns
S.no (smallint, not null)
work_year (int, not null)
experience_level (varchar(50), not
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
-- 13. Find the top 3 highest-paying jobs for each experience level.
with cte_ranked_jobs as(
select experience_level, job_title, salary_in_usd,
row_number() over (partition by experience_level order by salary_in_usd desc) as rank
from ds_salaries)
select experience_level, job_title, salary_in_usd
from cte_ranked_jobs
where rank <= 3;
130 %
Results
Messages
experience_level job_title salary_in_usd
1 EN Machine Learning Engineer 250000
2 EN Machine Learning Scientist 225000
3 EN Computer Vision Software Engineer 150000
4 EX Principal Data Engineer 600000
5 EX Principal Data Scientist 416000
6 EX Director of Data Science 325000
7 MI Research Scientist 450000
8 MI Financial Data Analyst 450000
9 MI Applied Machine Learning Scientist 423000
10 SE Data Scientist 412000
11 SE Data Analytics Lead 405000
12 SE Applied Data Scientist 380000
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (60) salary_db 00:00:00 12 rows
Matches: (
Ln 76 Col 17 Ch 17 INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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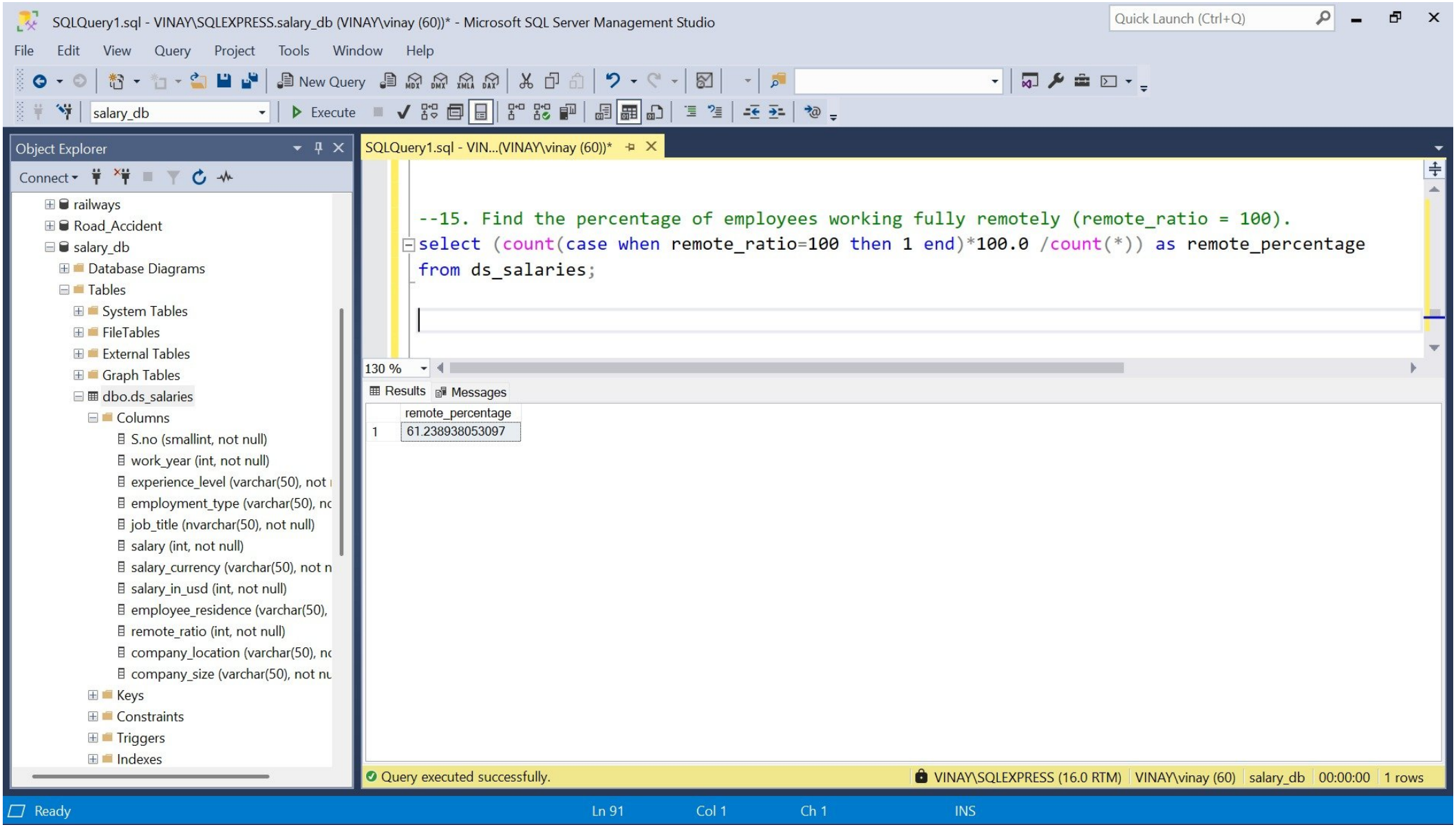
employment_type (varchar(50), nc
job_title (nvarchar(50), not null)
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--14. Rank employees by salary within each job title.
select job_title,employee_residence,salary_in_usd,
rank() over (partition by job_title order by salary_in_usd desc) as salary_rank
from ds_salaries;
130 %
Results
Messages
job_title employee_residence salary_in_usd salary_rank
1 3D Computer Vision Researcher IN 5409 1
2 AI Scientist IN 200000 1
3 AI Scientist US 120000 2
4 AI Scientist ES 55000 3
5 AI Scientist DK 45896 4
6 AI Scientist IN 18053 5
7 AI Scientist BR 12000 6
8 AI Scientist PK 12000 6
9 Analytics Engineer US 205300 1
10 Analytics Engineer US 184700 2
11 Analytics Engineer US 175000 3
12 Analytics Engineer US 135000 4
13 Applied Data Scientist US 380000 1
14 Applied Data Scientist US 177000 2
15 Applied Data Scientist US 157000 3
16 Applied Data Scientist GB 110037 4
17 Applied Data Scientist GB 54238 5
18 Applied Machine Learning Scientist US 423000 1
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (60) salary_db 00:00:00 565 rows
Matches: (
Ln 85 Col 1 Ch 1 INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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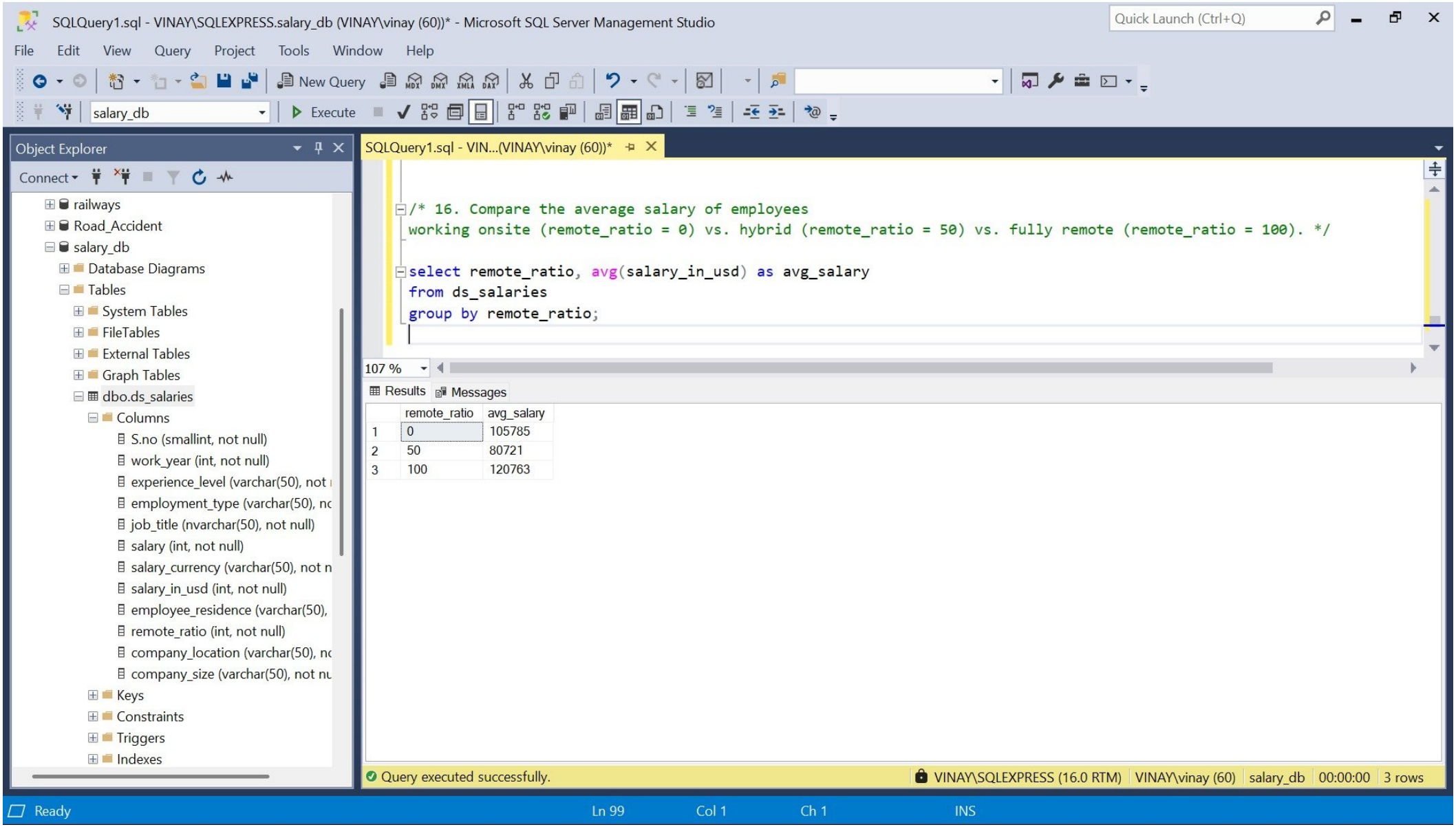
salary (int, not null)
salary_currency (varchar(50), not n
salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
--15. Find the percentage of employees working fully remotely (remote_ratio = 100).
select (count(case when remote_ratio=100 then 1 end)*100.0 /count(*)) as remote_percentage
from ds_salaries;
130 %
Results
Messages
remote_percentage
1
61.238938053097
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
1 rows
Ready
Ln 91
Col 1
Ch 1
INS


SQLQuery1.sql - VINAY\SQLEXPRESS.salary_db (VINAY\vinay (60))* - Microsoft SQL Server Management Studio
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salary (int, not null)
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salary_in_usd (int, not null)
employee_residence (varchar(50),
remote_ratio (int, not null)
company_location (varchar(50), nc
company_size (varchar(50), not nu
Keys
Constraints
Triggers
Indexes
SQLQuery1.sql - VIN...(VINAY\vinay (60))*
/* 16. Compare the average salary of employees
working onsite (remote_ratio = 0) vs. hybrid (remote_ratio = 50) vs. fully remote (remote_ratio = 100). */
select remote_ratio, avg(salary_in_usd) as avg_salary
from ds_salaries
group by remote_ratio;
107 %
Results
Messages
remote_ratio avg_salary
1 0 105785
2 50 80721
3 100 120763
Query executed successfully.
VINAY\SQLEXPRESS (16.0 RTM)
VINAY\vinay (60)
salary_db
00:00:00
3 rows
Ready
Ln 99
Col 1
Ch 1
INS