SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

```
1  --1.    Display (Using Union Function)
2  --a.     The name and the gender of the dependence that's gender is Female and depending on Female Employee.
3  --b.     And the male dependence that depends on Male Employee.
4  select Dependent.Dependent_name , Dependent.Sex from Dependent inner join Employee on Employee.SSN = Dependent.ESSN and Employee.Sex='F' and Dependent.Sex='F'
5  union all
6  select Dependent.Dependent_name , Dependent.Sex from Dependent inner join Employee on Employee.SSN = Dependent.ESSN and Employee.Sex='M' and Dependent.Sex='M'
7
8
9
10
11
12
13
14
15
16
17
18
```

100 %

Results | Messages

	Dependent_name	Sex
1	Ahmed Kamel Shawki	M
2	Omar Amr Omran	M
3	Ramy Amr Omran	M

SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

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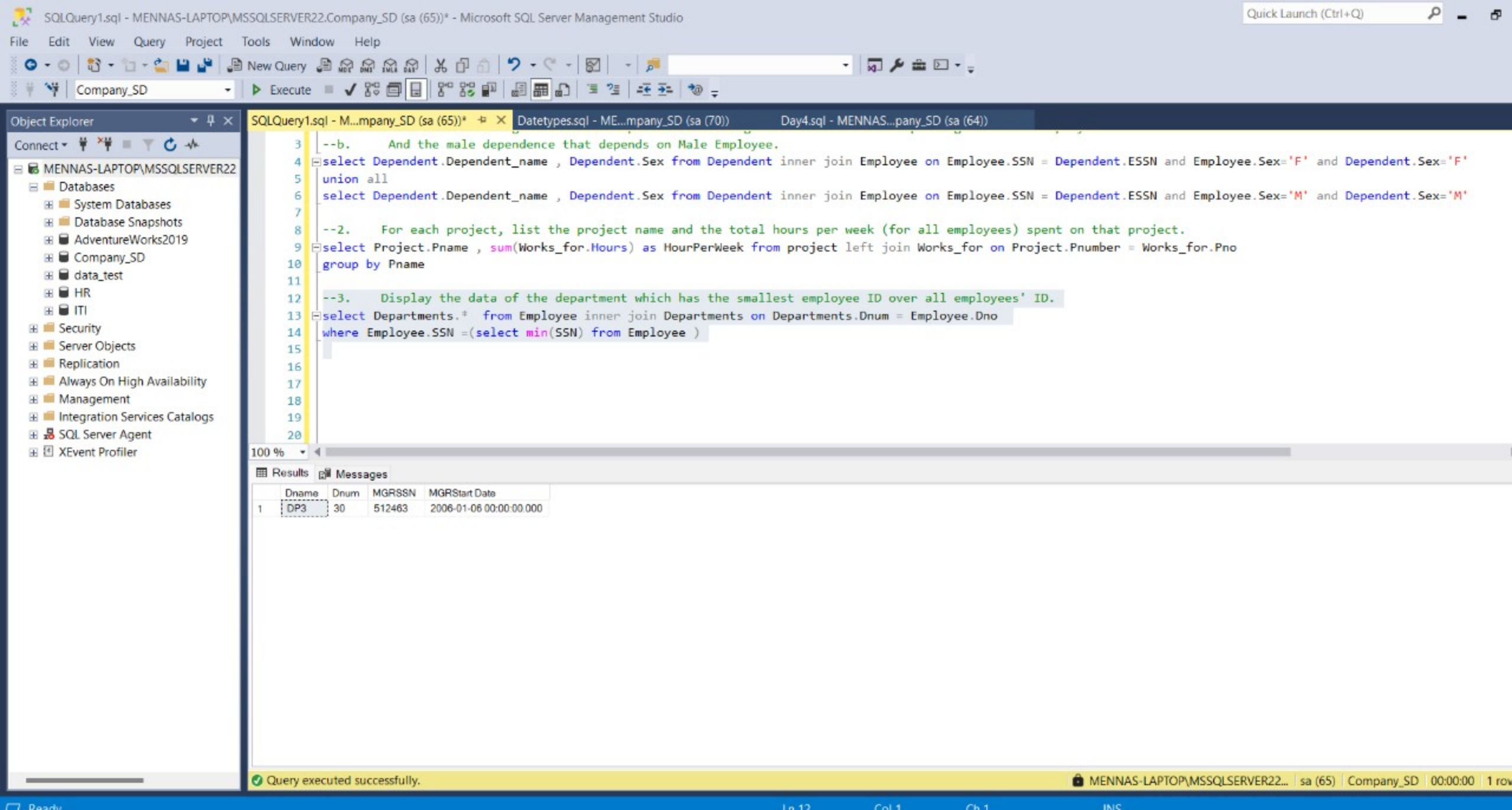
5   union all
6   select Dependent.Dependent_name , Dependent.Sex from Dependent inner join Employee on Employee.SSN = Dependent.ESSN and Employee.Sex='M' and Dependent.Sex='M'
7
8   --2.    For each project, list the project name and the total hours per week (for all employees) spent on that project.
9  select Project.Pname , sum(Works_for.Hours) as HourPerWeek from project left join Works_for on Project.Pnumber = Works_for.Pno
10  group by Pname
11
12
13
14
15
16
17
18
```

100 %

Results | Messages

	Pname	HourPerWeek
1	Al Rabwah	10
2	Al Rawdah	36
3	Al Rehab	30
4	Al Rowad	39
5	AL Solimaniah	50
6	Ebad El Rahman	22
7	Pitcho american	45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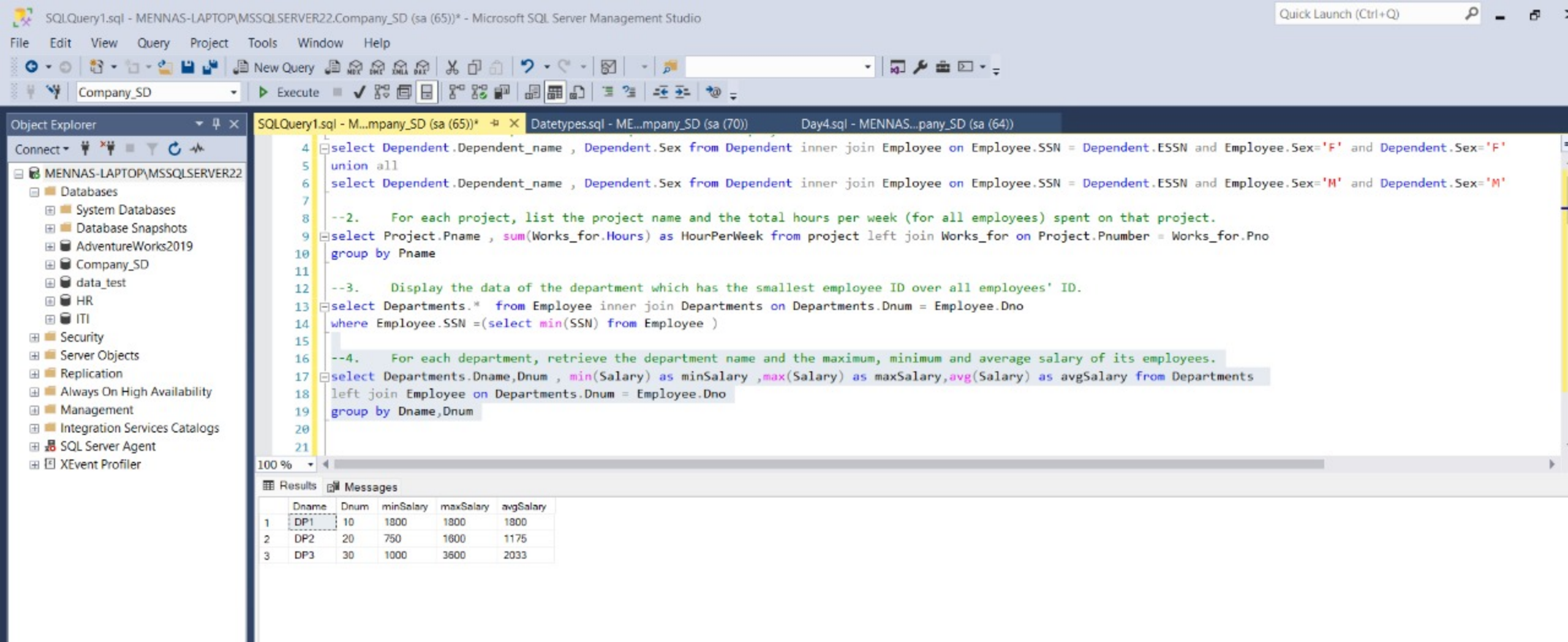
SQLQuery1.sql - M...mpany_SD (sa (65))*
Datetypes.sql - ME...mpany_SD (sa (70))
Day4.sql - MENNAS...pany_SD (sa (64))
3 --b. And the male dependence that depends on Male Employee.
4 select Dependent.Dependent_name , Dependent.Sex from Dependent inner join Employee on Employee.SSN = Dependent.ESSN and Employee.Sex='F' and Dependent.Sex='F'
5 union all
6 select Dependent.Dependent_name , Dependent.Sex from Dependent inner join Employee on Employee.SSN = Dependent.ESSN and Employee.Sex='M' and Dependent.Sex='M'
7
8 --2. For each project, list the project name and the total hours per week (for all employees) spent on that project.
9 select Project.Pname , sum(Works_for.Hours) as HourPerWeek from project left join Works_for on Project.Pnumber = Works_for.Pno
10 group by Pname
11
12 --3. Display the data of the department which has the smallest employee ID over all employees' ID.
13 select Departments.* from Employee inner join Departments on Departments.Dnum = Employee.Dno
14 where Employee.SSN =(select min(SSN) from Employee)
15
16
17
18
19
20
100 %
Results
Messages
Dname Dnum MGRSSN MGRStart Date
1 DP3 30 512463 2006-01-06 00:00:00.000
Query executed successfully.
MENNAS-LAPTOP\MSSQLSERVER22... sa (65) Company_SD 00:00:00 1 row
Ready
Ln 12 Col 1 Ch 1
INS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11
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13 select Departments.* from Employee inner join Departments on Departments.Dnum = Employee.Dno
14 where Employee.SSN =(select min(SSN) from Employee)
15
16 --4. For each department, retrieve the department name and the maximum, minimum and average salary of its employees.
17 select Departments.Dname,Dnum , min(Salary) as minSalary ,max(Salary) as maxSalary,avg(Salary) as avgSalary from Departments
18 left join Employee on Departments.Dnum = Employee.Dno
19 group by Dname,Dnum
20
21
100 %
Results
Messages
Dname Dnum minSalary maxSalary avgSalary
1 DP1 10 1800 1800 1800
2 DP2 20 750 1600 1175
3 DP3 30 1000 3600 2033

SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

```
10  group by Pname
11
12  --3.    Display the data of the department which has the smallest employee ID over all employees' ID.
13  select Departments.*  from Employee inner join Departments on Departments.Dnum = Employee.Dno
14  where Employee.SSN =(select min(SSN) from Employee )
15
16  --4.    For each department, retrieve the department name and the maximum, minimum and average salary of its employees.
17  select Departments.Dname,Dnum , min(Salary) as minSalary ,max(Salary) as maxSalary,avg(Salary) as avgSalary from Departments
18  left join Employee on Departments.Dnum = Employee.Dno
19  group by Dname,Dnum
20
21  --5.    List the full name of all managers who have no dependents.
22  select Fname +' '+Lname as name , SSN FROM Employee a inner join Departments b
23  on a.SSN = b.MGRSSN and not exists (select * from Dependent where b.MGRSSN = Dependent.ESSN)
24
```

100 %

Results | Messages

	name	SSN
1	Noha Mohamed	968574

SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

```
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16  --4.    For each department, retrieve the department name and the maximum, minimum and average salary of its employees.
17  select Departments.Dname,Dnum , min(Salary) as minSalary ,max(Salary) as maxSalary,avg(Salary) as avgSalary from Departments
18  left join Employee on Departments.Dnum = Employee.Dno
19  group by Dname,Dnum
20
21  --5.    List the full name of all managers who have no dependents.
22  select Fname +' '+Lname as name , SSN FROM Employee a inner join Departments b
23  on a.SSN = b.MGRSSN and not exists (select * from Dependent where b.MGRSSN = Dependent.ESSN)
24
25  --6.    For each department-- if its average salary is less than the average salary of all employees-- display its number, name and number of its employees.
26  select Dname,Dnum, count(Employee.SSN) ,avg(Salary) as avgSalary from Departments left join Employee on Departments.Dnum = Employee.Dno
27  group by Dname,Dnum
28  having avg(Salary) <(select avg(salary) from Employee)
29
```

100 %

Results | Messages

	Dname	Dnum	(No column name)	avgSalary
1	DP2	20	2	1175

SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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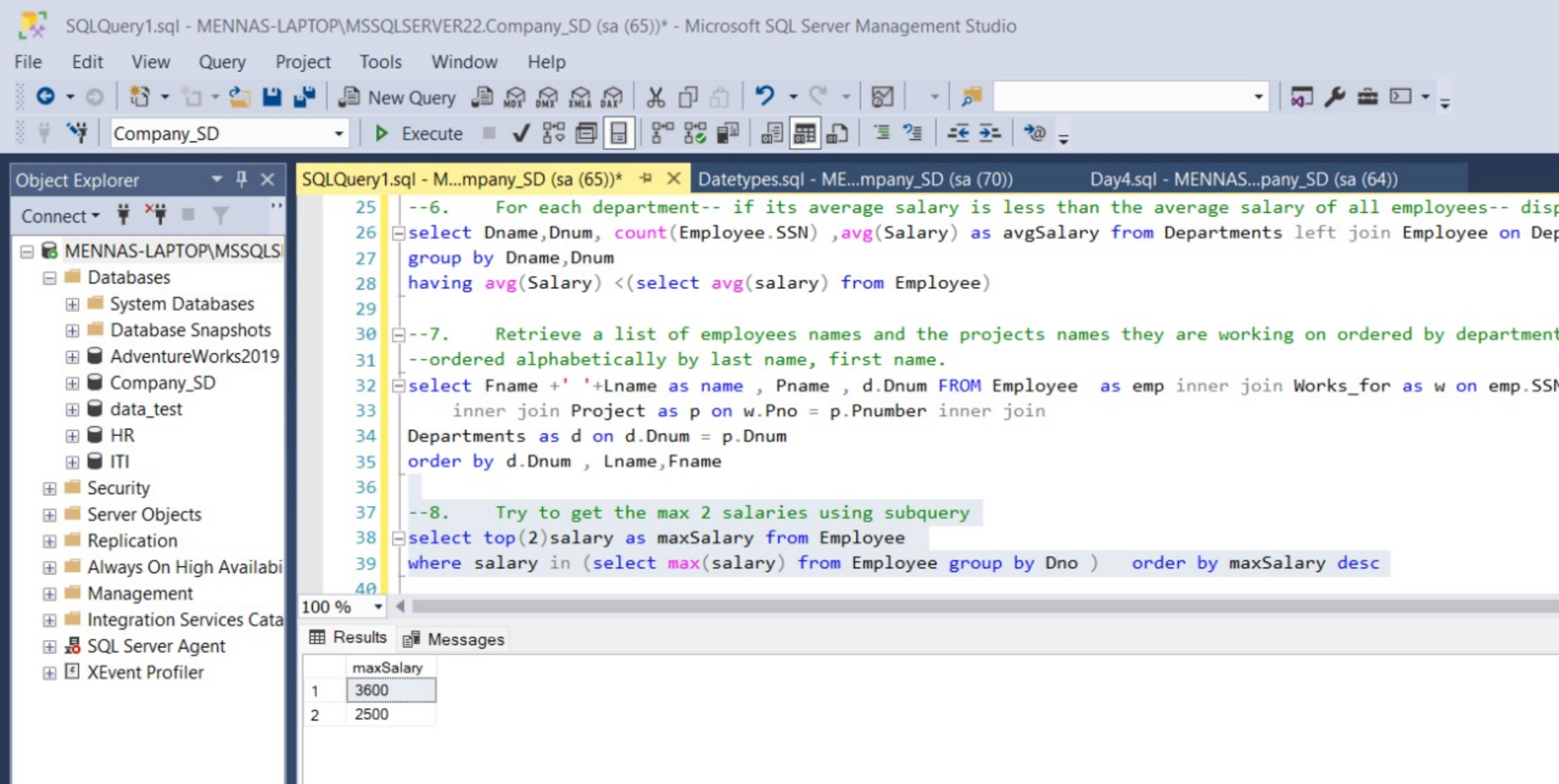
SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

```
22 select Fname +' '+Lname as name , SSN FROM Employee a inner join Departments b
23 on a.SSN = b.MGRSSN and not exists (select * from Dependent where b.MGRSSN = Dependent.ESSN)
24
25 --6.    For each department-- if its average salary is less than the average salary of all employees-- display its number, name and number of its employees.
26 select Dname,Dnum, count(Employee.SSN) ,avg(Salary) as avgSalary from Departments left join Employee on Departments.Dnum = Employee.Dno
27 group by Dname,Dnum
28 having avg(Salary) <(select avg(salary) from Employee)
29
30 --7.    Retrieve a list of employees names and the projects names they are working on ordered by department number and within each department,
31 --ordered alphabetically by last name, first name.
32 select Fname +' '+Lname as name , Pname , d.Dnum FROM Employee  as emp inner join Works_for as w on emp.SSN = w.ESSn
33     inner join Project as p on w.Pno = p.Pnumber inner join
34 Departments as d on d.Dnum = p.Dnum
35 order by d.Dnum , Lname,Fname
36
37
```

100 %

Results | Messages

	name	Pname	Dnum
1	Mariam Adel	Al Rawdah	10
2	Ahmed Ali	AL Solimaniah	10
3	Kamel Mohamed	AL Solimaniah	10
4	Kamel Mohamed	Al Rabwah	10
5	Kamel Mohamed	Al Rawdah	10
6	Noha Mohamed	Al Rawdah	10
7	Maged Raoof	Al Rawdah	10
8	Mariam Adel	Al Rowad	20
9	Mariam Adel	Ebad El Rahman	20
10	Noha Mohamed	Al Rowad	20
11	Noha Mohamed	Ebad El Rahman	20
12	Maged Raoof	Al Rowad	20
13	Edward Hanna	Al Rehab	30
14	Edward Hanna	Pitcho american	30
15	Kamel Mohamed	Al Rehab	30
16	Maged Raoof	Al Rehab	30
17	Maged Raoof	Pitcho american	30


SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio
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SQLQuery1.sql - M...mpany_SD (sa (65))*
Datetypes.sql - ME...mpany_SD (sa (70))
Day4.sql - MENNAS...pany_SD (sa (64))
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26 select Dname,Dnum, count(Employee.SSN) ,avg(Salary) as avgSalary from Departments left join Employee on Dep
27 group by Dname,Dnum
28 having avg(Salary) <(select avg(salary) from Employee)
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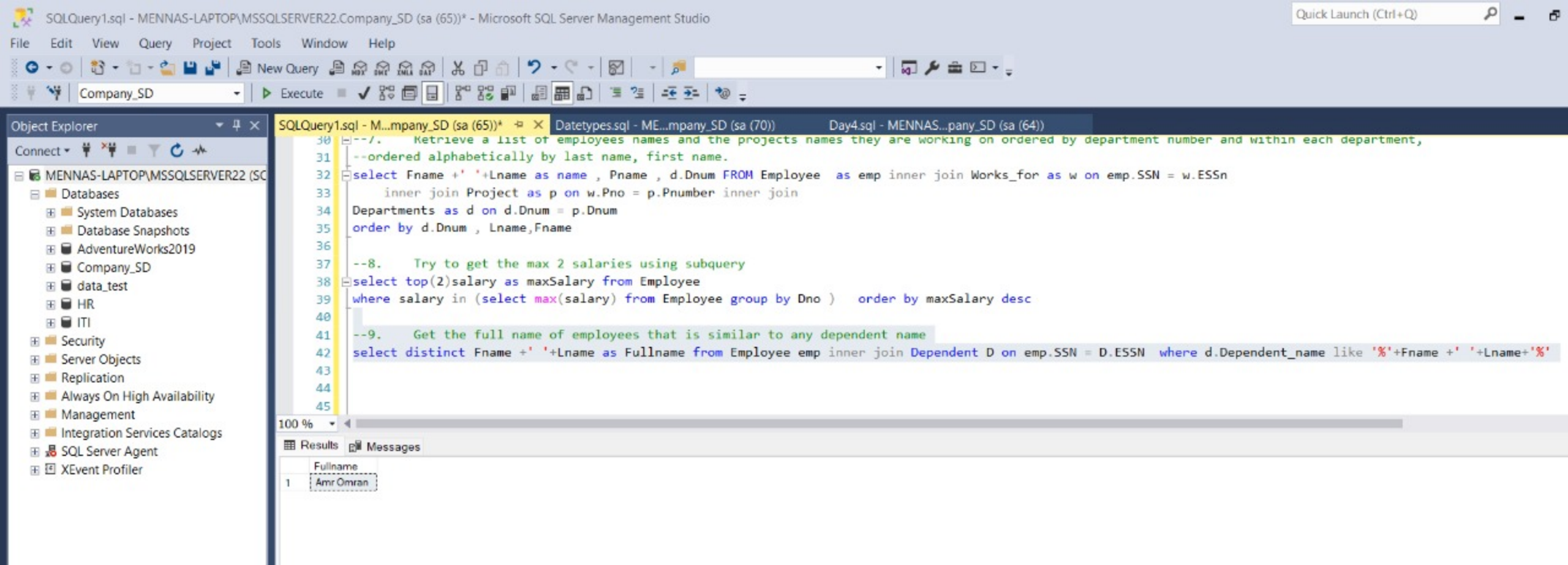
32 select Fname +' '+Lname as name , Pname , d.Dnum FROM Employee as emp inner join Works_for as w on emp.SSN
33 inner join Project as p on w.Pno = p.Pnumber inner join
34 Departments as d on d.Dnum = p.Dnum
35 order by d.Dnum , Lname,Fname
36
37 --8. Try to get the max 2 salaries using subquery
38 select top(2)salary as maxSalary from Employee
39 where salary in (select max(salary) from Employee group by Dno) order by maxSalary desc
40
100 %
Results
Messages
maxSalary
1 3600
2 2500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33 inner join Project as p on w.Pno = p.Pnumber inner join
34 Departments as d on d.Dnum = p.Dnum
35 order by d.Dnum , Lname,Fname
36
37 --8. Try to get the max 2 salaries using subquery
38 select top(2)salary as maxSalary from Employee
39 where salary in (select max(salary) from Employee group by Dno) order by maxSalary desc
40
41 --9. Get the full name of employees that is similar to any dependent name
42 select distinct Fname +' '+Lname as Fullname from Employee emp inner join Dependent D on emp.SSN = D.ESSN where d.Dependent_name like '%'+Fname +' '+Lname+'%'
43
44
45
100 %
Results
Messages
Fullname
1 Amr Omran

SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio

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New Query | Company_SD | Execute

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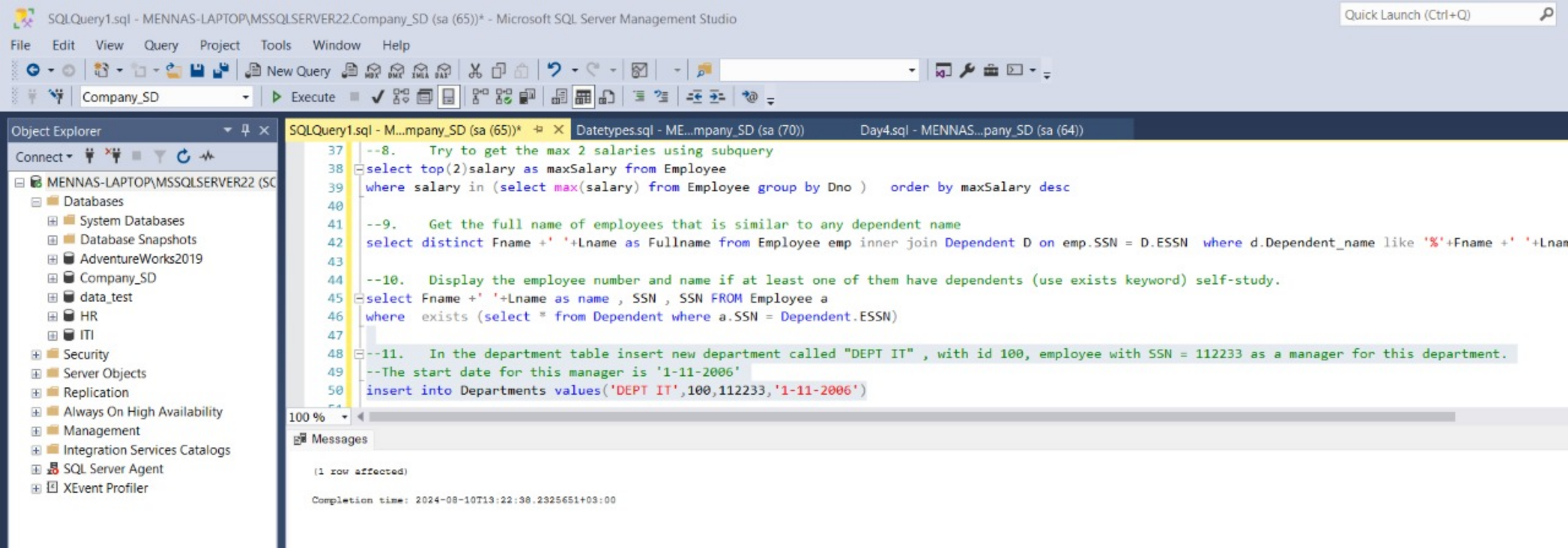
SQLQuery1.sql - M...mpany_SD (sa (65))* | Datetypes.sql - ME...mpany_SD (sa (70)) | Day4.sql - MENNAS...pany_SD (sa (64))

```
34  epartments as d on d.Dnum = p.Dnum
35  rder by d.Dnum , Lname,Fname
36
37  -8.    Try to get the max 2 salaries using subquery
38  elect top(2)salary as maxSalary from Employee
39  here salary in (select max(salary) from Employee group by Dno )   order by maxSalary desc
40
41  -9.    Get the full name of employees that is similar to any dependent name
42  elect distinct Fname +' '+Lname as Fullname from Employee emp inner join Dependent D on emp.SSN = D.ESSN  where d.Dependent_nam
43
44  -10.   Display the employee number and name if at least one of them have dependents (use exists keyword) self-study.
45  elect Fname +' '+Lname as name , SSN , SSN FROM Employee a
46  here  exists (select * from Dependent where a.SSN = Dependent.ESSN)
47
```

100 %

Results | Messages

	name	SSN	SSN
1	Ahmed Ali	112233	112233
2	Kamel Mohamed	223344	223344
3	Amr Omran	321654	321654
4	Edward Hanna	512463	512463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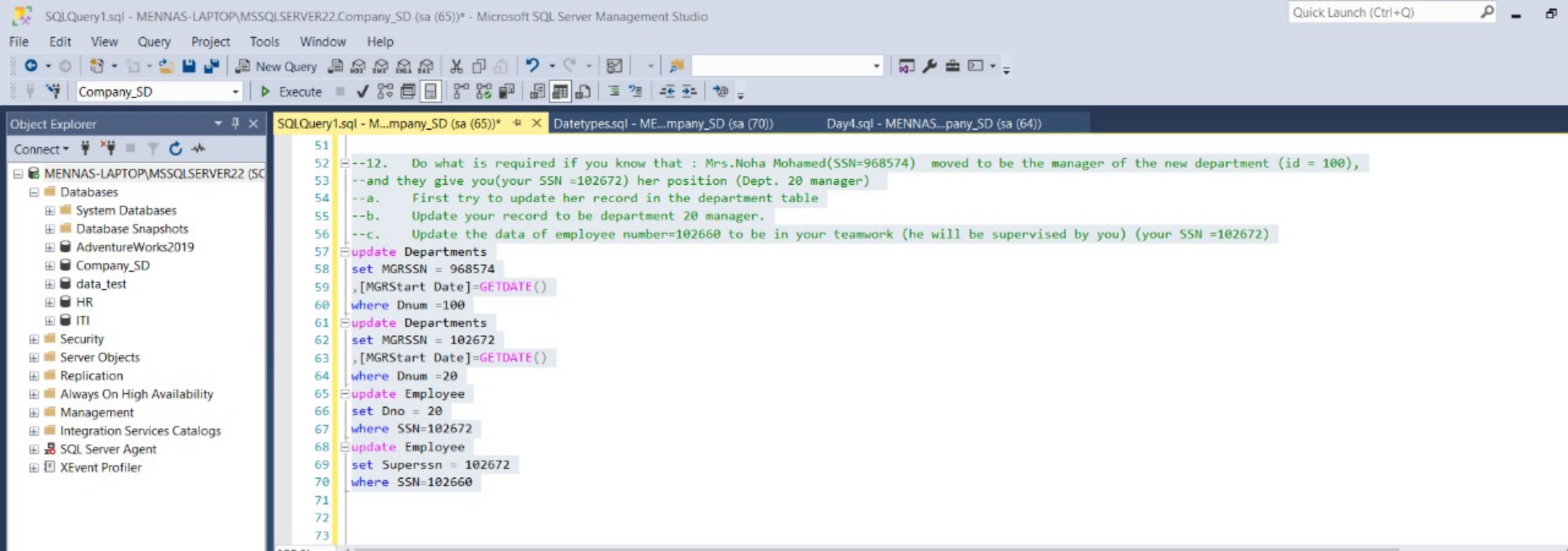
42 select distinct Fname +' '+Lname as Fullname from Employee emp inner join Dependent D on emp.SSN = D.ESSN where d.Dependent_name like '%'+Fname +' '+Lnam
43
44 --10. Display the employee number and name if at least one of them have dependents (use exists keyword) self-study.
45 select Fname +' '+Lname as name , SSN , SSN FROM Employee a
46 where exists (select * from Dependent where a.SSN = Dependent.ESSN)
47
48 --11. In the department table insert new department called "DEPT IT" , with id 100, employee with SSN = 112233 as a manager for this department.
49 --The start date for this manager is '1-11-2006'
50 insert into Departments values('DEPT IT',100,112233,'1-11-2006')
100 %
Messages
(1 row affected)
Completion time: 2024-08-10T13:22:38.2325651+03:00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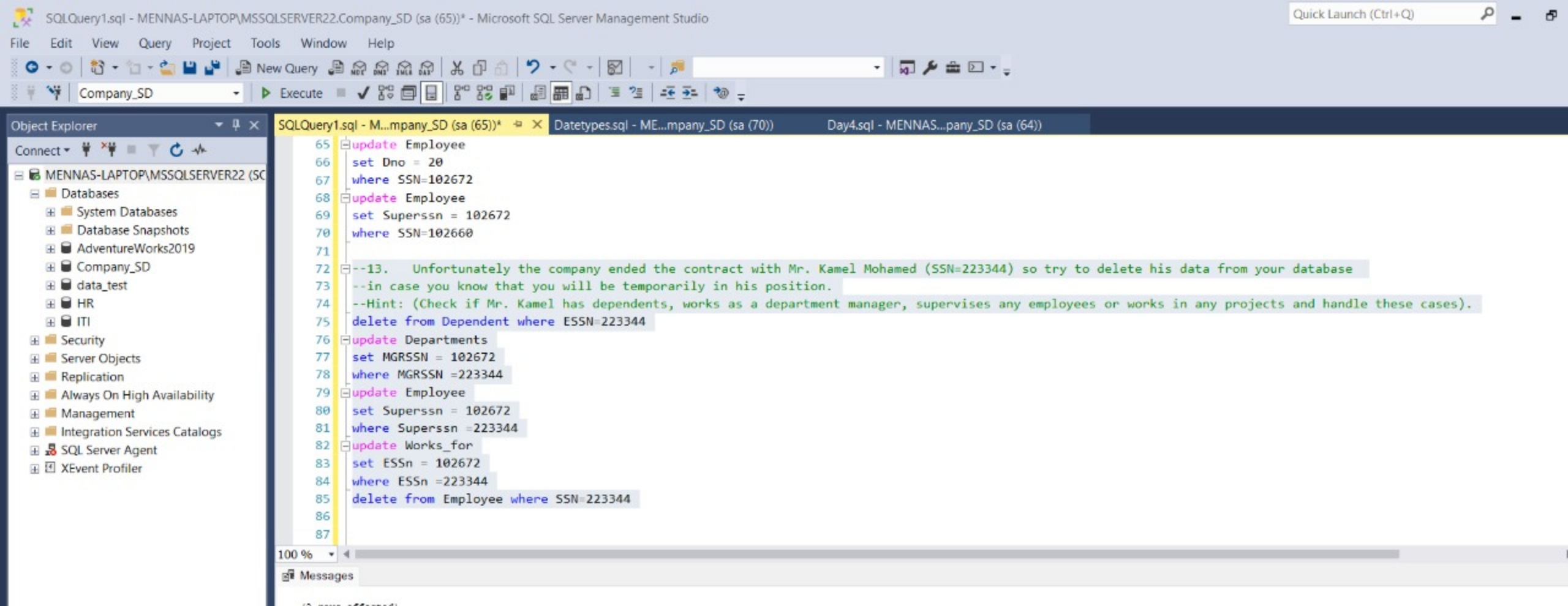
Day4.sql - MENNAS...pany_SD (sa (64))
51
52 --12. Do what is required if you know that : Mrs.Noha Mohamed(SSN=968574) moved to be the manager of the new department (id = 100),
53 --and they give you(your SSN =102672) her position (Dept. 20 manager)
54 --a. First try to update her record in the department table
55 --b. Update your record to be department 20 manager.
56 --c. Update the data of employee number=102660 to be in your teamwork (he will be supervised by you) (your SSN =102672)
57 update Departments
58 set MGRSSN = 968574
59 ,[MGRStart Date]=GETDATE()
60 where Dnum =100
61 update Departments
62 set MGRSSN = 102672
63 ,[MGRStart Date]=GETDATE()
64 where Dnum =20
65 update Employee
66 set Dno = 20
67 where SSN=102672
68 update Employee
69 set Superssn = 102672
70 where SSN=102660
71
72
73


SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
Company_SD
Execute
Object Explorer
Connect
MENNAS-LAPTOP\MSSQLSERVER22 (SC
Databases
System Databases
Database Snapshots
AdventureWorks2019
Company_SD
data_test
HR
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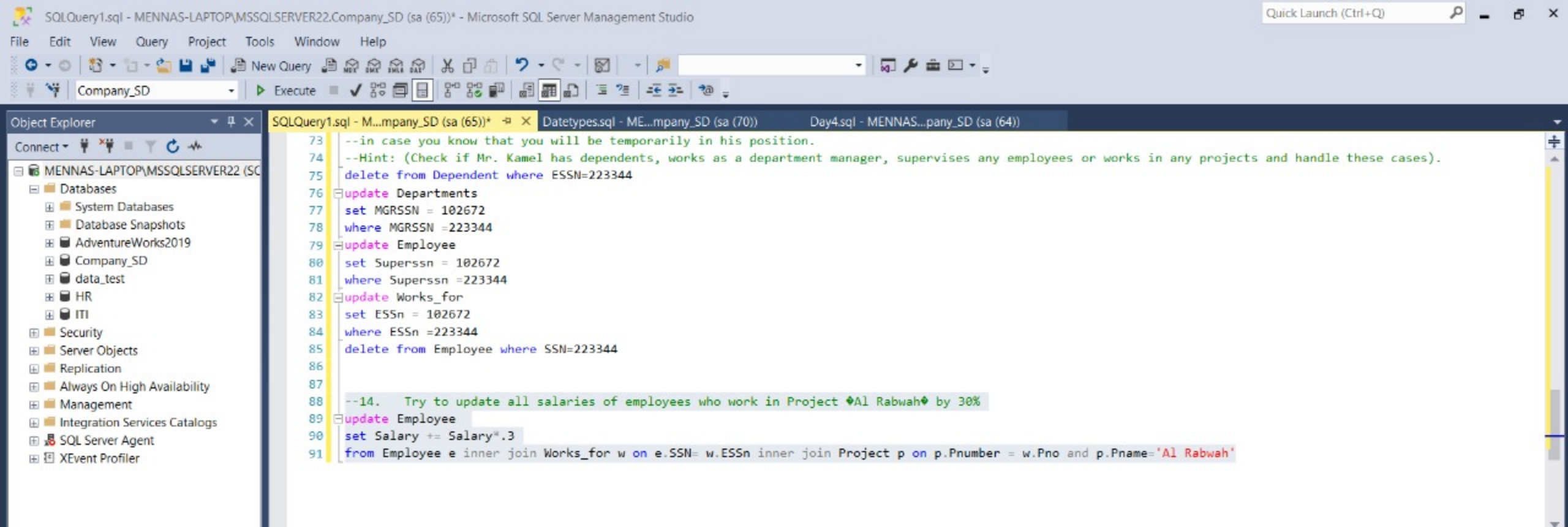
Security
Server Objects
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent
XEvent Profiler
SQLQuery1.sql - M...mpany_SD (sa (65))*
Datetypes.sql - ME...mpany_SD (sa (70))
Day4.sql - MENNAS...pany_SD (sa (64))
65 update Employee
66 set Dno = 20
67 where SSN=102672
68 update Employee
69 set Superssn = 102672
70 where SSN=102660
71
72 --13. Unfortunately the company ended the contract with Mr. Kamel Mohamed (SSN=223344) so try to delete his data from your database
73 --in case you know that you will be temporarily in his position.
74 --Hint: (Check if Mr. Kamel has dependents, works as a department manager, supervises any employees or works in any projects and handle these cases).
75 delete from Dependent where ESSN=223344
76 update Departments
77 set MGRSSN = 102672
78 where MGRSSN =223344
79 update Employee
80 set Superssn = 102672
81 where Superssn =223344
82 update Works_for
83 set ESSn = 102672
84 where ESSn =223344
85 delete from Employee where SSN=223344
86
87
100 %
Messages


SQLQuery1.sql - MENNAS-LAPTOP\MSSQLSERVER22.Company_SD (sa (65))* - Microsoft SQL Server Management Studio
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SQLQuery1.sql - M...mpany_SD (sa (65))*
Datetypes.sql - ME...mpany_SD (sa (70))
Day4.sql - MENNAS...pany_SD (sa (64))
73 --in case you know that you will be temporarily in his position.
74 --Hint: (Check if Mr. Kamel has dependents, works as a department manager, supervises any employees or works in any projects and handle these cases).
75 delete from Dependent where ESSN=223344
76 update Departments
77 set MGRSSN = 102672
78 where MGRSSN =223344
79 update Employee
80 set Superssn = 102672
81 where Superssn =223344
82 update Works_for
83 set ESSn = 102672
84 where ESSn =223344
85 delete from Employee where SSN=223344
86
87
88 --14.   Try to update all salaries of employees who work in Project Al Rabwah by 30%
89 update Employee
90 set Salary += Salary*.3
91 from Employee e inner join Works_for w on e.SSN= w.ESSn inner join Project p on p.Pnumber = w.Pno and p.Pname='Al Rabwah'