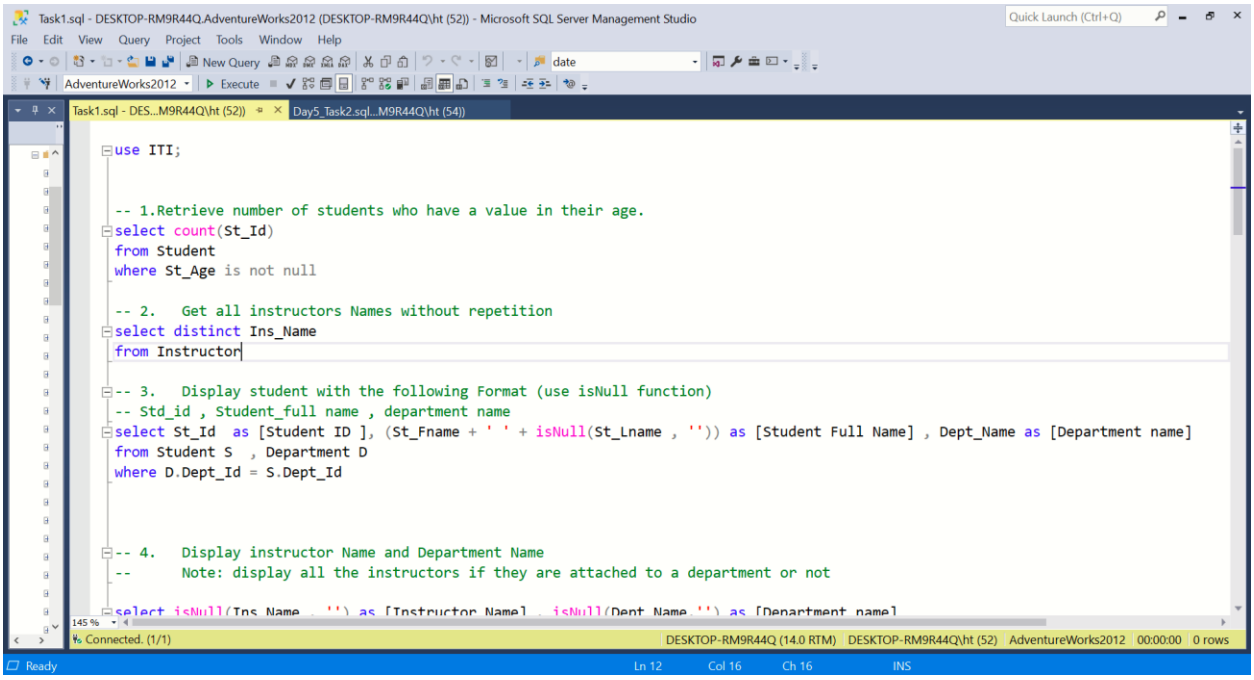
Task1.sql - DESKTOP-RM9R44Q.AdventureWorks2012 (DESKTOP-RM9R44Q\ht (52)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
AdventureWorks2012
Execute
Task1.sql - DES...M9R44Q\ht (52))
Day5_Task2.sql...M9R44Q\ht (54))
use ITI;
-- 1.Retrieve number of students who have a value in their age.
select count(St_Id)
from Student
where St_Age is not null
-- 2. Get all instructors Names without repetition
select distinct Ins_Name
from Instructor
-- 3. Display student with the following Format (use isNull function)
-- Std_id , Student_full name , department name
select St_Id as [Student ID], (St_Fname + ' ' + isNull(St_Lname , '')) as [Student Full Name] , Dept_Name as [Department name]
from Student S , Department D
where D.Dept_Id = S.Dept_Id
-- 4. Display instructor Name and Department Name
-- Note: display all the instructors if they are attached to a department or not
Connected. (1/1)
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AdventureWorks2012
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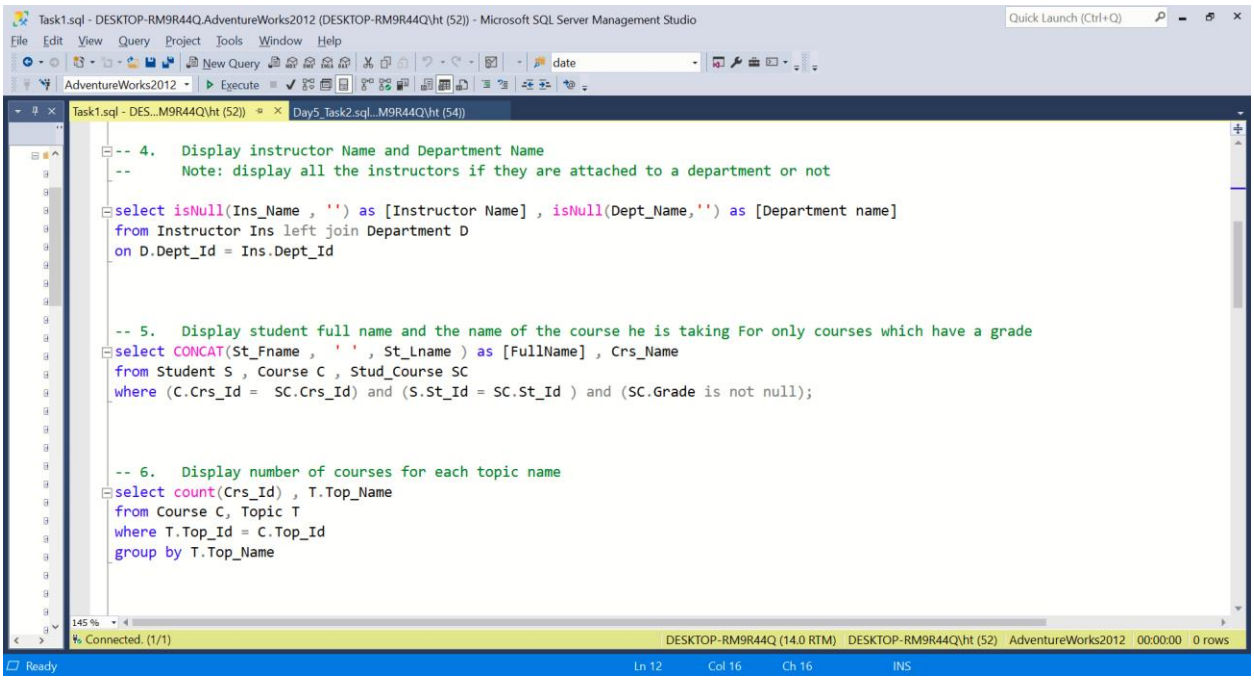
Task1.sql - DESKTOP-RM9R44Q.AdventureWorks2012 (DESKTOP-RM9R44Q\ht (52)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
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Execute
Task1.sql - DES...M9R44Q\ht (52))
Day5_Task2.sql...M9R44Q\ht (54))
-- 4. Display instructor Name and Department Name
-- Note: display all the instructors if they are attached to a department or not
select isNull(Ins_Name , '') as [Instructor Name] , isNull(Dept_Name,'') as [Department name]
from Instructor Ins left join Department D
on D.Dept_Id = Ins.Dept_Id
-- 5. Display student full name and the name of the course he is taking For only courses which have a grade
select CONCAT(St_Fname , ' ' , St_Lname) as [FullName] , Crs_Name
from Student S , Course C , Stud_Course SC
where (C.Crs_Id = SC.Crs_Id) and (S.St_Id = SC.St_Id) and (SC.Grade is not null);
-- 6. Display number of courses for each topic name
select count(Crs_Id) , T.Top_Name
from Course C, Topic T
where T.Top_Id = C.Top_Id
group by T.Top_Name
Connected. (1/1)
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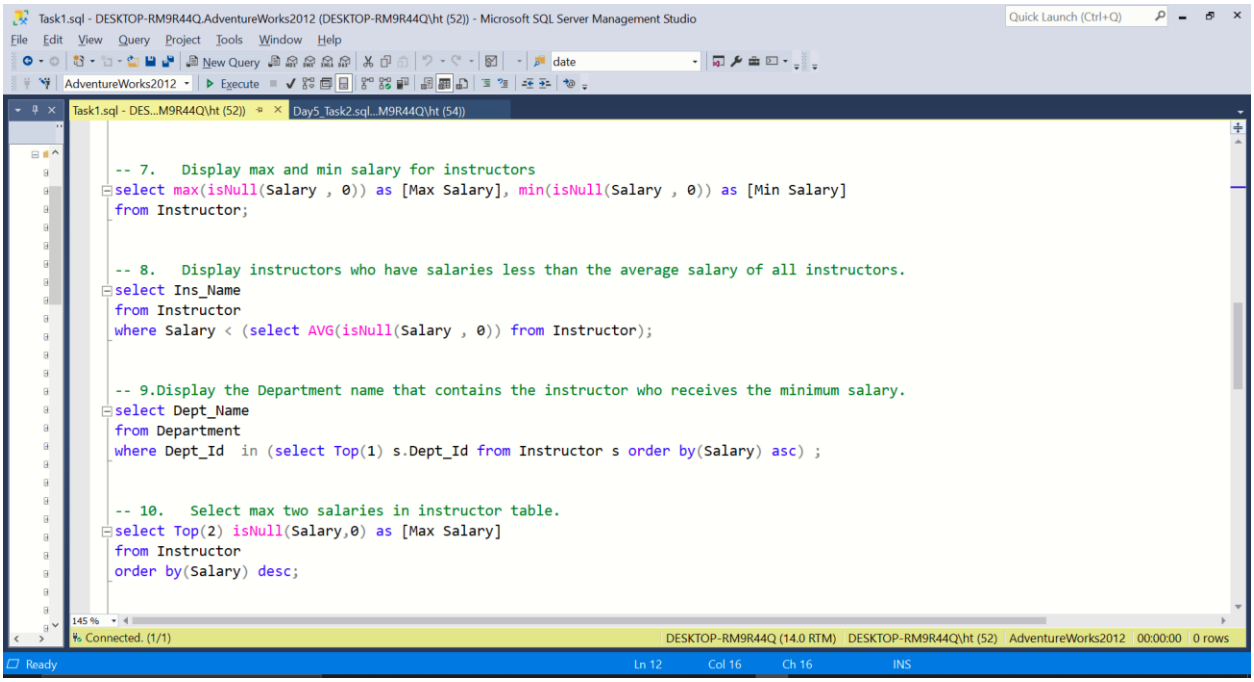
Task1.sql - DESKTOP-RM9R44Q.AdventureWorks2012 (DESKTOP-RM9R44Q\ht (52)) - Microsoft SQL Server Management Studio
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AdventureWorks2012
Execute
Task1.sql - DES...M9R44Q\ht (52))
Day5_Task2.sql...M9R44Q\ht (54))
-- 7. Display max and min salary for instructors
select max(isNull(Salary , 0)) as [Max Salary], min(isNull(Salary , 0)) as [Min Salary]
from Instructor;
-- 8. Display instructors who have salaries less than the average salary of all instructors.
select Ins_Name
from Instructor
where Salary < (select AVG(isNull(Salary , 0)) from Instructor);
-- 9.Display the Department name that contains the instructor who receives the minimum salary.
select Dept_Name
from Department
where Dept_Id in (select Top(1) s.Dept_Id from Instructor s order by(Salary) asc) ;
-- 10. Select max two salaries in instructor table.
select Top(2) isNull(Salary,0) as [Max Salary]
from Instructor
order by(Salary) desc;
145 %
Connected. (1/1)
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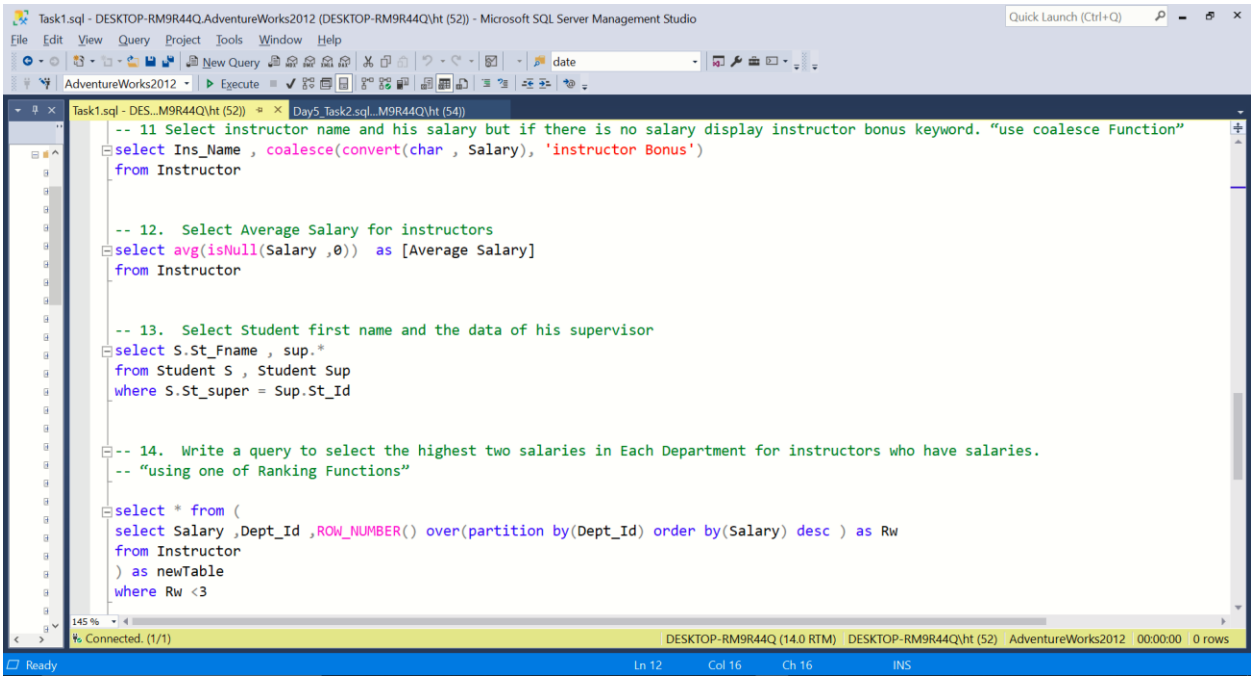
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AdventureWorks2012
Execute
Task1.sql - DES...M9R44Q\ht (52))
Day5_Task2.sql...M9R44Q\ht (54))
-- 11 Select instructor name and his salary but if there is no salary display instructor bonus keyword. “use coalesce Function”
select Ins_Name , coalesce(convert(char , Salary), 'instructor Bonus')
from Instructor
-- 12. Select Average Salary for instructors
select avg(isNull(Salary ,0)) as [Average Salary]
from Instructor
-- 13. Select Student first name and the data of his supervisor
select S.St_Fname , sup.*
from Student S , Student Sup
where S.St_super = Sup.St_Id
-- 14. Write a query to select the highest two salaries in Each Department for instructors who have salaries.
-- “using one of Ranking Functions”
select * from (
select Salary ,Dept_Id ,ROW_NUMBER() over(partition by(Dept_Id) order by(Salary) desc) as Rw
from Instructor
) as newTable
where Rw <3
145 %
Connected. (1/1)
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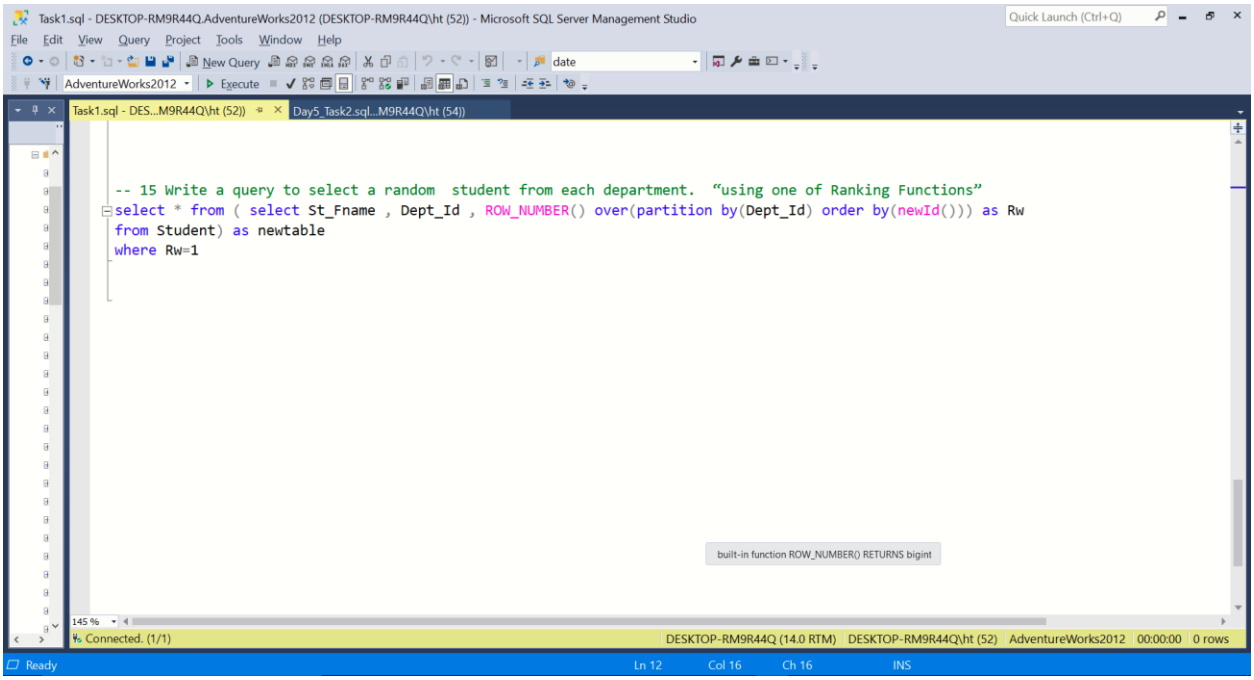
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New Query
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AdventureWorks2012
Execute
Task1.sql - DES...M9R44Q\ht (52))
Day5_Task2.sql...M9R44Q\ht (54))
-- 15 Write a query to select a random student from each department. "using one of Ranking Functions"
select * from (select St_Fname , Dept_Id , ROW_NUMBER() over(partition by(Dept_Id) order by(newId())) as Rw
from Student) as newtable
where Rw=1
built-in function ROW_NUMBER() RETURNS bigint
145 %
Connected. (1/1)
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AdventureWorks2012
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0 rows
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