



SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SANVA1221 (66))\* - Microsoft SQL Server Management Studio

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task

employee Execute

Object Explorer

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SQLQuery2.sql - A1...e (SANVA1221 (66))\*

```
--3. Query to retrieve specific data from the employee records table:  
  
SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT  
FROM emp_record_table;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT
1	1.00	Arthur	Black	M	ALL
2	5.00	Eric	Hoffman	M	FINANCE
3	10.00	William	Butler	M	AUTOMOTIVE
4	52.00	Dianna	Wilson	F	HEALTHCARE
5	57.00	Dorothy	Wilson	F	HEALTHCARE
6	83.00	Patrick	Voltz	M	HEALTHCARE
7	103.00	Emily	Grove	F	FINANCE
8	204.00	Karene	Nowak	F	AUTOMOTIVE
9	245.00	Nian	Zhen	M	RETAIL
10	260.00	Roy	Collins	M	RETAIL
11	403.00	Steve	Hoffman	M	FINANCE
12	428.00	Pete	Allen	M	AUTOMOTIVE
13	478.00	David	Smith	M	RETAIL
14	505.00	Chad	Wilson	M	HEALTHCARE
15	532.00	Claire	Brennan	F	AUTOMOTIVE
16	583.00	Janet	Hale	F	RETAIL
17	612.00	Tracy	Norris	F	RETAIL
18	620.00	Katrina	Allen	F	RETAIL
19	640.00	Jenifer	Jhones	F	RETAIL

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

--4. Query to retrieve data based on the EMP\_RATING classification:  
SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66))\*

```
-- Less than 2
SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
FROM emp_record_table
WHERE EMP_RATING < 2;

-- More than 4
SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
FROM emp_record_table
WHERE EMP_RATING > 4;

-- Between 2 and 4
SELECT EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPT, EMP_RATING
FROM emp_record_table
WHERE EMP_RATING BETWEEN 2 AND 4;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
1	57.00	Dorothy	Wilson	F	HEALTHCARE	1
2	532.00	Claire	Brennan	F	AUTOMOTIVE	1
3	620.00	Katrina	Allen	F	RETAIL	1

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
1	1.00	Arthur	Black	M	ALL	5
2	52.00	Dianna	Wilson	F	HEALTHCARE	5
3	83.00	Patrick	Voltz	M	HEALTHCARE	5
4	204.00	Karene	Nowak	F	AUTOMOTIVE	5

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	EMP_RATING
1	5.00	Eric	Hoffman	M	FINANCE	3
2	10.00	William	Butler	M	AUTOMOTIVE	2
3	103.00	Emily	Grove	F	FINANCE	4
4	245.00	Nian	Zhen	M	RETAIL	2
5	260.00	Roy	Collins	M	RETAIL	3
6	403.00	Steve	Hoffman	M	FINANCE	3
7	428.00	Pete	Allen	M	AUTOMOTIVE	4
8	478.00	David	Smith	M	RETAIL	4
9	505.00	Chad	Wilson	M	HEALTHCAR...	2
10	583.00	Janet	Hale	F	RETAIL	2
11	612.00	Tracy	Norris	F	RETAIL	4
12	640.00	Jenifer	Jhones	F	RETAIL	4

Query executed successfully.

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

```
-- 5. Query to concatenate the names of employees in the Finance  
  
SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS NAME  
FROM emp_record_table  
WHERE DEPT = 'Finance';
```

100 %

Results Messages

	NAME
1	Eric Hoffman
2	Emily Grove
3	Steve Hoffman

Query executed successfully.

Ready

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66))\* - Microsoft SQL Server Management Studio

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Connect - X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z task

Object Explorer

Connect - X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

-- 6. Query to list only employees who have subordinates:

```
SELECT e.EMP_ID, e.FIRST_NAME, e.LAST_NAME, e.GENDER, e.DEPT, COUNT(m.EMP_ID) AS Number_of_Reporters
FROM emp_record_table e
LEFT JOIN emp_record_table m ON e.EMP_ID = m.MANAGER_ID
GROUP BY e.EMP_ID, e.FIRST_NAME, e.LAST_NAME, e.GENDER, e.DEPT
HAVING COUNT(m.EMP_ID) > 0;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	GENDER	DEPT	Number_of_Reporters
1	1.00	Arthur	Black	M	ALL	5
2	83.00	Patrick	Voltz	M	HEALTHCARE	3
3	103.00	Emily	Grove	F	FINANCE	2
4	428.00	Pete	Allen	M	AUTOMOTIVE	3
5	583.00	Janet	Hale	F	RETAIL	3
6	612.00	Tracy	Norris	F	RETAIL	2

Query executed successfully.

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

```
-- 7. Query to list all employees of health and finance departments using UNION:  
  
SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT  
FROM emp_record_table  
WHERE DEPT = 'Healthcare'  
UNION  
SELECT EMP_ID, FIRST_NAME, LAST_NAME, DEPT  
FROM emp_record_table  
WHERE DEPT = 'Finance';
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	DEPT
1	52.00	Dianna	Wilson	HEALTHCARE
2	57.00	Dorothy	Wilson	HEALTHCARE
3	83.00	Patrick	Voltz	HEALTHCARE
4	505.00	Chad	Wilson	HEALTHCARE
5	5.00	Eric	Hoffman	FINANCE
6	103.00	Emily	Grove	FINANCE
7	403.00	Steve	Hoffman	FINANCE

Query executed successfully.

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SANVA1221 (66))\* - Microsoft SQL Server Management Studio

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SQLQuery2.sql - A1...e (SANVA1221 (66))\*

-- 8. Query to list employee details grouped by department with maximum rating:

```
SELECT
    DEPT,
    MAX(EMP_RATING) AS Max_Rating,
    COUNT(*) AS Total_Employees
FROM emp_record_table
GROUP BY DEPT;
```

100 %

Results Messages

	DEPT	Max_Rating	Total_Employees
1	ALL	5	1
2	AUTOMOTIVE	5	4
3	FINANCE	4	3
4	HEALTHCARE	5	4
5	RETAIL	4	7

Query executed successfully.

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66))\* - Microsoft SQL Server Management Studio

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

```
-- 9. Query to calculate the minimum and maximum salary of employees in each position:

SELECT
    ROLE,
    MIN(SALARY) AS Min_Salary,
    MAX(SALARY) AS Max_Salary
FROM emp_record_table
GROUP BY ROLE;
```

100 %

Results Messages

	ROLE	Min_Salary	Max_Salary
1	ASSOCIATE DATA SCIENTIST	4000	5000
2	JUNIOR DATA SCIENTIST	2800	3000
3	LEAD DATA SCIENTIST	8500	9000
4	MANAGER	8500	11000
5	PRESIDENT	16500	16500
6	SENIOR DATA SCIENTIST	5500	7700

Query executed successfully.



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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

```
-- 10. Query to assign ratings based on experience:

SELECT
    EMP_ID,
    FIRST_NAME,
    LAST_NAME,
    EXP,
    RANK() OVER (ORDER BY EXP DESC) AS Experience_Rank
FROM emp_record table;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	EXP	Experience_Rank
1	1.00	Arthur	Black	20	1
2	83.00	Patrick	Voltz	15	2
3	103.00	Emily	Grove	14	3
4	428.00	Pete	Allen	14	3
5	583.00	Janet	Hale	14	3
6	612.00	Tracy	Norris	13	6
7	10.00	William	Butler	12	7
8	5.00	Eric	Hoffman	11	8
9	57.00	Dorothy	Wilson	9	9
10	204.00	Karene	Nowak	8	10
11	260.00	Roy	Collins	7	11
12	245.00	Nian	Zhen	6	12
13	52.00	Dianna	Wilson	6	12
14	505.00	Chad	Wilson	5	14
15	403.00	Steve	Hoffman	4	15
16	478.00	David	Smith	3	16
17	532.00	Claire	Brennan	3	16
18	620.00	Katrina	Allen	2	18
19	640.00	Jenifer	Jhones	1	19

Query executed successfully.

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SQLQuery2.sql - A1...e (SAN\A1221 (66))

```
-- 11. Query to create a view of employees in
[... various countries with salary over six thousand:

CREATE VIEW HighSalary AS
SELECT EMP_ID, FIRST_NAME, LAST_NAME, COUNTRY, SALARY
FROM emp_record_table
WHERE SALARY > 6000;
```

100 %

Messages

Commands completed successfully.

Completion time: 2023-11-29T16:21:27.9833347+09:00

SQLQuery4.sql - A1...e (SAN\A1221 (65))

```
SELECT TOP (1000) [EMP_ID]
,[FIRST_NAME]
,[LAST_NAME]
,[COUNTRY]
,[SALARY]
FROM [employee].[dbo].[HighSalary]
```

100 %

Results

	EMP_ID	FIRST_NAME	LAST_NAME	COUNTRY	SALARY
1	100	Arthur	Black	USA	16500
2	500	Eric	Hoffman	USA	8500
3	1000	William	Butler	FRANCE	9000
4	5700	Dorothy	Wilson	USA	7700
5	8300	Patrick	Voltz	USA	9500
6	10300	Emily	Grove	CANADA	10500
7	20400	Karene	Nowak	GERMANY	7500
8	24500	Nian	Zhen	CHINA	6500
9	26000	Floy	Collins	INDIA	7000
10	42600	Pete	Allen	GERMANY	11000
11	69300	Janet	Hale	COLOMBIA	10000
12	61200	Tracy	Norris	INDIA	8500

100 %

Messages

Query executed successfully.

A1221PC\SQLEXPRESS (16.0 RTM) SAN\A1221 (66) employee 00:00:00 0 rows

Query executed successfully. A1221PC\SQLEXPRESS (16.0 RTM) SAN\A1221 (65) employee 00:00:00 12 rows

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66))\* - Microsoft SQL Server Management Studio

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Connect > X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z task

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-- 12. Nested query to find employees with more than ten years of experience:

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP
FROM emp_record_table
WHERE EXP > 10;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	EXP
1	1.00	Arthur	Black	20
2	5.00	Eric	Hoffman	11
3	10.00	William	Butler	12
4	83.00	Patrick	Voltz	15
5	103.00	Emily	Grove	14
6	428.00	Pete	Allen	14
7	583.00	Janet	Hale	14
8	612.00	Tracy	Norris	13

Query executed successfully.

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to A1221PC\SQLEXPRESS (SQL Server 16.0.1000 - SAN) | Databases | employee | Tables | dbo.proj\_table

SQLQuery2.sql - A1...e (SAN\A1221 (66))

```
-- 13. Stored procedure to retrieve details of employees with more than three years of experience:
CREATE PROCEDURE GetExperiencedEmployees
AS
BEGIN
    SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP
    FROM emp_record_table
    WHERE EXP > 3;
END;
```

Messages: May 2714, Level 16, State 3, Procedure GetExperiencedEmployees, Line 5 [Batch Start Line 0] There is already an object named 'GetExperiencedEmployees' in the database. Completion time: 2023-11-29T16:28:12.2776917+09:00

SQLQuery5.sql - A1...e (SAN\A1221 (63))

```
sp_helptext 'GetExperiencedEmployees';
```

Results: Text

1	-- 13. Stored procedure to retrieve details of emp...
2	
3	
4	
5	CREATE PROCEDURE GetExperiencedEmployees
6	AS
7	BEGIN
8	SELECT EMP_ID, FIRST_NAME, LAST_NAME, EXP
9	FROM emp_record_table
10	WHERE EXP > 3;
11	END.

100 % | A1221PC\SQLEXPRESS (16.0 RTM) | SAN\A1221 (66) | employee | 00:00:00 | 0 rows

SQLQuery6.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (64)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to A1221PC\SQLEXPRESS (SQL Server 16.0.1000 - SAN) | Databases | employee | Tables | dbo.proj\_table

SQLQuery2.sql - A1...e (SAN\A1221 (66))

```
-- 14. Query using functions stored in the project table to check the work profile:
CREATE FUNCTION CheckJobProfileStandard (@exp INT)
RETURNS NVARCHAR(50)
AS
BEGIN
    DECLARE @jobProfile NVARCHAR(50)

    IF @exp <= 2
        SET @jobProfile = 'JUNIOR DATA SCIENTIST';
    ELSE IF @exp <= 5
        SET @jobProfile = 'ASSOCIATE DATA SCIENTIST';
    ELSE IF @exp <= 10
        SET @jobProfile = 'SENIOR DATA SCIENTIST';
    ELSE IF @exp <= 12
        SET @jobProfile = 'LEAD DATA SCIENTIST';
    ELSE
        SET @jobProfile = 'MANAGER';

    RETURN @jobProfile;
END;
```

Messages: Commands completed successfully. Completion time: 2023-11-29T16:29:31.4823395+09:00

SQLQuery6.sql - A1...e (SAN\A1221 (64))

```
-- Exemplo de uso da função para um funcionário específico
DECLARE @EmployeeExperience INT;
SET @EmployeeExperience = 8; -- Ajuste o valor conforme necessário

SELECT
    EMP_ID,
    FIRST_NAME,
    LAST_NAME,
    EXP,
    dbo.CheckJobProfileStandard(EXP) AS JobProfile
FROM
    emp_record_table
WHERE
    EMP_ID = 1; -- Substitua pelo ID do funcionário desejado
```

Results: EMP\_ID FIRST\_NAME LAST\_NAME EXP JobProfile

1	100	Arthur	Black	20	MANAGER
---	-----	--------	-------	----	---------

100 % | A1221PC\SQLEXPRESS (16.0 RTM) | SAN\A1221 (66) | employee | 00:00:00 | 0 rows

100 % | A1221PC\SQLEXPRESS (16.0 RTM) | SAN\A1221 (64) | employee | 00:00:00 | 1 rows

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SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

```
-- 16. Query to calculate bonus for all employees:  
  
SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, EMP_RATING,  
       0.05 * SALARY * EMP_RATING AS bonus_amount  
FROM emp_record_table;
```

100 %

Results Messages

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	EMP_RATING	bonus_amount
1	1.00	Arthur	Black	16500	5	4125.00
2	5.00	Eric	Hoffman	8500	3	1275.00
3	10.00	William	Butler	9000	2	900.00
4	52.00	Dianna	Wilson	5500	5	1375.00
5	57.00	Dorothy	Wilson	7700	1	385.00
6	83.00	Patrick	Voltz	9500	5	2375.00
7	103.00	Emily	Grove	10500	4	2100.00
8	204.00	Karene	Nowak	7500	5	1875.00
9	245.00	Nian	Zhen	6500	2	650.00
10	260.00	Roy	Collins	7000	3	1050.00
11	403.00	Steve	Hoffman	5000	3	750.00
12	428.00	Pete	Allen	11000	4	2200.00
13	478.00	David	Smith	4000	4	800.00
14	505.00	Chad	Wilson	5000	2	500.00
15	532.00	Claire	Brennan	4300	1	215.00
16	583.00	Janet	Hale	10000	2	1000.00
17	612.00	Tracy	Norris	8500	4	1700.00
18	620.00	Katrina	Allen	3000	1	150.00
19	640.00	Jenifer	Jhones	2800	4	560.00

Query executed successfully.

SQLQuery10.sql - A1221PC\SQLEXPRESS:employee (SAN:A1221 (63)) - Microsoft SQL Server Management Studio

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task

employee

Object Explorer

Connect +

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dbo.data\_science\_team

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dbo.proj\_table

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dbo.HighSalary

dbo.HighSalaryEmployees

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SQLQuery2.sql - A1...e (SAN:A1221 (66))

-- 15. Create an index to improve query performance for 'Eric':

```
CREATE INDEX id_Eric
ON emp_record_table (FIRST_NAME);
```

100 %

Messages

Commands completed successfully.

Completion time: 2023-11-29T17:07:42.2015779+09:00

SQLQuery10.sql - A...e (SAN:A1221 (63))

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY
FROM emp_record_table
WHERE FIRST_NAME = 'Eric';
```

100 %

Results

EMP_ID	FIRST_NAME	LAST_NAME	SALARY
1	Eric	Hoffman	8500

1 rows

Query executed successfully.

A1221PC\SQLEXPRESS (16.0 RTM) SAN:A1221 (66) employee 00:00:00 0 rows

A1221PC\SQLEXPRESS (16.0 RTM) SAN:A1221 (63) employee 00:00:00 1 rows

SQLQuery2.sql - A1221PC\SQLEXPRESS.employee (SAN\A1221 (66))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

task

employee Execute

Object Explorer

Connect

A1221PC\SQLEXPRESS (SQL Server 16.0.1000 - SAN)

- Databases
  - System Databases
  - Database Snapshots
  - DentalDb
  - employee
    - Database Diagrams
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
      - dbo.data\_science\_team
      - dbo.emp\_record\_table
      - dbo.proj\_table
    - Views
      - System Views
      - dbo.HighSalary
      - dbo.HighSalaryEmployees
    - External Resources
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    - Programmability
    - Query Store
    - Service Broker
    - Storage
    - Security
  - Security
    - Server Objects
    - Replication
    - Management
    - XEvent Profiler

SQLQuery2.sql - A1...e (SAN\A1221 (66))\*

-- 17. Query to calculate average salary per continent and per country

```
SELECT
    CONTINENT,
    COUNTRY,
    SUM(SALARY) AS Total_Salary,
    AVG(SALARY) AS Average_Salary,
    COUNT(*) AS Employee_Count
FROM
    emp_record_table
GROUP BY
    CONTINENT, COUNTRY;
```

100 %

Results Messages

	CONTINENT	COUNTRY	Total_Salary	Average_Salary	Employee_Count
1	NORTH AMERICA	CANADA	21000	7000	3
2	ASIA	CHINA	6500	6500	1
3	SOUTH AMERICA	COLOMBIA	16800	5600	3
4	EUROPE	FRANCE	9000	9000	1
5	EUROPE	GERMANY	22800	7600	3
6	ASIA	INDIA	18500	6166	3
7	NORTH AMERICA	USA	47200	9440	5

Query executed successfully.