

Outputs for the queries

#1

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69
70 -- WAQ Fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT from the employee record table:
71 • SELECT emp_id, first_name, last_name, gender, dept
72 FROM emp_record_table;
100% 23:72

Result Grid Filter Rows: Search Export:

```

emp_id	first_name	last_name	gender	dept
E001	Arthur	Black	M	ALL
E005	Eric	Hoffman	M	FINANCE
E010	William	Butler	M	AUTOMOTIVE
E052	Dianna	Wilson	F	HEALTHCARE
E057	Dorothy	Wilson	F	HEALTHCARE
E083	Patrick	Voltz	M	HEALTHCARE
E103	Emily	Grove	F	FINANCE
E204	Karen	Nowak	F	AUTOMOTIVE
E245	Nian	Zhen	M	RETAIL
E260	Roy	Collins	M	RETAIL
E403	Steve	Hoffman	M	FINANCE
E428	Pete	Allen	M	AUTOMOTIVE

emp_record_table 1

#2

```

76 -- WAQ Fetch EMP_ID, FIRST_NAME, LAST_NAME, GENDER, DEPARTMENT, and EMP_RATING based on EMP_RATING conditions:
77 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating >4;
78 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating <2;
79 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating between 2 and 4;
80
81 -- WAQ Concatenate FIRST_NAME and LAST_NAME of employees in the Finance department:
82 • SELECT CONCAT(first_name, ' ', last_name) AS NAME
100% 106:77

Result Grid Filter Rows: Search Export:

```

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	dept	emp_rating
E001	Arthur	Black	M	ALL	5
E052	Dianna	Wilson	F	HEALTHCARE	5
E083	Patrick	Voltz	M	HEALTHCARE	5
E204	Karen	Nowak	F	AUTOMOTIVE	5

```

78 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating <2;
79 • select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating between 2 and 4;
80
81 -- WAQ Concatenate FIRST_NAME and LAST_NAME of employees in the Finance department:
82 • SELECT CONCAT(first_name, ' ', last_name) AS NAME
100% 106:78

Result Grid Filter Rows: Search Export:

```

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	dept	emp_rating
E057	Dorothy	Wilson	F	HEALTHCARE	1
E532	Claire	Brennan	F	AUTOMOTIVE	1
E620	Katrina	Allen	F	RETAIL	1

```
78 •    select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating <2;
79 •    select EMP_ID, FIRST_NAME, LAST_NAME, GENDER, dept, emp_rating from emp_record_table where emp_rating between 2 and 4;
80
81 -- WAQ Concatenate FIRST_NAME and LAST_NAME of employees in the Finance department:
82 •    SELECT CONCAT(first_name, ' ', last_name) AS NAME
100%   ◊ | 119:79 |
```

Result Grid Filter Rows: Search Export:

EMP_ID	FIRST_NAME	LAST_NAME	GENDER	dept	emp_rating
E005	Eric	Hoffman	M	FINANCE	3
E010	William	Butler	M	AUTOMOTIVE	2
E103	Emily	Grove	F	FINANCE	4
E245	Nian	Zhen	M	RETAIL	2
E260	Roy	Collins	M	RETAIL	3
E403	Steve	Hoffman	M	FINANCE	3
E428	Pete	Allen	M	AUTOMOTIVE	4
E478	David	Smith	M	RETAIL	4
E505	Chad	Wilson	M	HEALTHCARE	2
E583	Janet	Hale	F	RETAIL	2
E612	Tracy	Norris	F	RETAIL	4
E640	Jenifer	Jhones	F	RETAIL	4

emp_record_table 5

#3

```
81 -- WAQ Concatenate FIRST_NAME and LAST_NAME of employees in the Finance department:
82 •    SELECT CONCAT(first_name, ' ', last_name) AS NAME
83     FROM emp_record_table
84     WHERE dept = 'Finance';
85
86 -- WAQ List employees who have someone reporting to them and show the number of reporters:
87 •    SELECT e1.emp_id, e1.first_name, e1.last_name, COUNT(e2.emp_id) AS num_reporters
88     FROM emp_record_table e1
89     JOIN emp_record_table e2 ON e1.emp_id = e2.manager_id
100%   ◊ | 24:84 |
```

Result Grid Filter Rows: Search Export:

NAME
Eric Hoffman
Emily Grove
Steve Hoffman

#4

```
86 -- WAQ List employees who have someone reporting to them and show the number of reporters:  
87 • SELECT e1.emp_id, e1.first_name, e1.last_name, COUNT(e2.emp_id) AS num_reporters  
88 FROM emp_record_table e1  
89 JOIN emp_record_table e2 ON e1.emp_id = e2.manager_id  
90 GROUP BY e1.emp_id, e1.first_name, e1.last_name;  
91  
92 -- WAQ List employees from the healthcare and finance departments using UNION:  
93 • SELECT emp_id, first_name, last_name, dept  
94 FROM emp_record_table  
95 WHERE dept = 'Healthcare'  
100% 49:90
```

Result Grid Filter Rows: Search Export:

emp_id	first_name	last_name	num_reporters
E103	Emily	Grove	2
E428	Pete	Allen	3
E083	Patrick	Voltz	3
E001	Arthur	Black	5
E583	Janet	Hale	3
E612	Tracy	Norris	2

#5

```
86 -- WAQ List employees who have someone reporting to them and show the number of reporters:  
87 • SELECT e1.emp_id, e1.first_name, e1.last_name, COUNT(e2.emp_id) AS num_reporters  
88 FROM emp_record_table e1  
89 JOIN emp_record_table e2 ON e1.emp_id = e2.manager_id  
90 GROUP BY e1.emp_id, e1.first_name, e1.last_name;  
91  
92 -- WAQ List employees from the healthcare and finance departments using UNION:  
93 • SELECT emp_id, first_name, last_name, dept  
94 FROM emp_record_table  
95 WHERE dept = 'Healthcare'  
100% 49:90
```

Result Grid Filter Rows: Search Export:

emp_id	first_name	last_name	num_reporters
E103	Emily	Grove	2
E428	Pete	Allen	3
E083	Patrick	Voltz	3
E001	Arthur	Black	5
E583	Janet	Hale	3
E612	Tracy	Norris	2

#6

```

102
103    -- WAQ Group employee details by dept with their ratings and max rating for the department:
104 •   SELECT dept, emp_id, first_name, last_name, role, emp_rating, MAX(emp_rating) OVER (PARTITION BY dept) AS max_emp_rating
105   FROM emp_record_table;
106
107    -- WAQ Calculate the minimum and maximum salary of employees in each role:
108 •   SELECT role, MIN(salary) AS min_salary, MAX(salary) AS max_salary
109   FROM emp_record_table
110   GROUP BY role;
111
100% 23:105

```

Result Grid Filter Rows: Search Export:

dept	emp_id	first_name	last_name	role	emp_rating	max_emp_rati...
ALL	E001	Arthur	Black	PRESIDENT	5	5
AUTOMOTIVE	E010	William	Butler	LEAD DATA SCIENTIST	2	5
AUTOMOTIVE	E204	Karen	Nowak	SENIOR DATA SCIENTIST	5	5
AUTOMOTIVE	E428	Pete	Allen	MANAGER	4	5
AUTOMOTIVE	E532	Claire	Brennan	ASSOCIATE DATA SCIENTIST	1	5
FINANCE	E005	Eric	Hoffman	LEAD DATA SCIENTIST	3	4
FINANCE	E103	Emily	Grove	MANAGER	4	4
FINANCE	E403	Steve	Hoffman	ASSOCIATE DATA SCIENTIST	3	4
HEALTHCARE	E052	Diana	Wilson	SENIOR DATA SCIENTIST	5	5
HEALTHCARE	E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	1	5
HEALTHCARE	E083	Patrick	Voltz	MANAGER	5	5
HEALTHCARE	E505	Chad	Wilson	ASSOCIATE DATA SCIENTIST	2	5
DEPTA"	E045	Anna	Thorn	SENIOR DATA SCIENTIST	6	5

Result 9

```

100
107    -- WAQ Calculate the minimum and maximum salary of employees in each role:
108 •   SELECT role, MIN(salary) AS min_salary, MAX(salary) AS max_salary
109   FROM emp_record_table
110   GROUP BY role;
111
100% 15:110

```

Result Grid Filter Rows: Search Export:

role	min_salary	max_salary
PRESIDENT	16500	16500
LEAD DATA SCIENTIST	8500	9000
SENIOR DATA SCIENTIST	5500	7700
MANAGER	8500	11000
ASSOCIATE DATA SCIENTIST	4000	5000
JUNIOR DATA SCIENTIST	2800	3000

Result 10

#8

```

112      -- WAQ Assign ranks to each employee based on their experience:
113 •   SELECT first_name, last_name, exp,
114           RANK() OVER (ORDER BY exp DESC)
115   FROM emp_record_table;
116
100% 23:15

```

Result Grid Filter Rows: Search Export:

first_name	last_name	exp	RANK() OVER (ORDER BY exp DESC)
Arthur	Black	20	1
Patrick	Voltz	15	2
Emily	Grove	14	3
Pete	Allen	14	3
Janet	Hale	14	3
Tracy	Norris	13	6
William	Butler	12	7
Eric	Hoffman	11	8
Dorothy	Wilson	9	9
Karene	Nowak	8	10
Roy	Collins	7	11
Dianna	Wilson	6	12
			13

Result 11

#9 create and view the 'view' both in the same screenshot

```

116
117      -- WAQ to Create a view for employees in various countries with a salary greater than six thousand:
118 •   create view high_salary_employees as select * from emp_record_table where salary > 6000;
119
120      -- WAQ to Find employees with experience of more than ten years using a nested query:
121 •   select emp_id, first_name, last_name, exp from emp_record_table where exp > 10;
122
123      -- WAQ to Create a stored procedure to retrieve details of employees with experience more than three years:
100% 80:121

```

Result Grid Filter Rows: Search Export:

emp_id	first_name	last_name	exp
E001	Arthur	Black	20
E005	Eric	Hoffman	11
E010	William	Butler	12
E083	Patrick	Voltz	15
E103	Emily	Grove	14
E428	Pete	Allen	14
E583	Janet	Hale	14
E612	Tracy	Norris	13

#10

```
-- WAQ to Create a stored procedure to retrieve details of employees with experience more than three years:  
124  
125  DELIMITER //  
126  
127 • CREATE PROCEDURE GetEmployeesByExperience()  
128  BEGIN  
129      SELECT emp_id, first_name, last_name, exp  
130      FROM emp_record_table  
131      WHERE exp > 3;  
132  END //  
133  
134  DELIMITER ;  
135  
136 -- WAQ to Store function to check job profile based on experience standards:  
137  
100% 1:135 |  
  
Result Grid Filter Rows: Search Export:  


| emp_id | first_name | last_name | exp |
|--------|------------|-----------|-----|
| E001   | Arthur     | Black     | 20  |
| E005   | Eric       | Hoffman   | 11  |
| E010   | William    | Butler    | 12  |
| E083   | Patrick    | Voltz     | 15  |
| E103   | Emily      | Grove     | 14  |
| E428   | Pete       | Allen     | 14  |
| E583   | Janet      | Hale      | 14  |
| E612   | Tracy      | Norris    | 13  |

  
emp_record_table 13
```

#11

```
162 • -- using the above function in a query
163 SELECT
164     emp_id,
165     first_name,
166     last_name,
167     role,
168     GetJobProfile(exp) AS expected_profile
169 FROM
170     emp_record_table
171 WHERE
172     dept = 'Healthcare';
173 |
```

100% ◇ 1:173

Result Grid

Filter Rows:



Search

Export:



emp_id	first_name	last_name	role	expected_profile
E052	Dianna	Wilson	SENIOR DATA SCIENTIST	SENIOR DATA SCIENTIST
E057	Dorothy	Wilson	SENIOR DATA SCIENTIST	SENIOR DATA SCIENTIST
E083	Patrick	Voltz	MANAGER	MANAGER
E505	Chad	Wilson	ASSOCIATE DATA SCIENTIST	ASSOCIATE DATA SCIENTIST

Result 14