

## Assignment 2 feedback for Vinh Nguyen (1029531)

Criterion	Available marks	Your mark
<b>Question 1</b>		
first_name and last_name in SELECT statement	2	2
first_name and last_name concatenated; efficient use of concat (only used once)	1	1
nicely readable name given to CONCAT result column	1	1
FROM user included; user left join step_taken included; correct use of left join	2	2
WHERE statement that has user.id or step_taken.id depending on approach	4	4
Complexity	-1	0
Formatting	-1	-1
Total for Question 1	10	9
<b>Question 2</b>		
SELECT id, title	2	2
FROM step	2	2
WHERE title	2	2
WHERE statement involves comparison operator of some sort (e.g. =, LIKE) with the string 'mindful'	1	1
statement uses the LIKE operator specifically	1	1
statement correctly uses the % wildcard character	2	2
Complexity	-1	0
Formatting	-1	0
Total for Question 2	10	10
<b>Question 3</b>		
SELECT contains the column title	2	0
SELECT uses DISTINCT	2	2
FROM contains step_taken and step	4	4
INNER JOIN is correct or use nested query with IN	4	0
WHERE contains step_taken.user_id = 17	4	4
WHERE contains when_finished IS NOT NULL	4	4
Complexity	-2	-2
Formatting	-2	0
Total for Question 3	20	12

Criterion	Available marks	Your mark
<b>Question 4</b>		
SELECT contains the column title	2	2
2 SELECT contains COUNT(*); Other COUNTs are accepted if PKs are considered	2	2
TABLES step_taken, step	4	4
4 INNER JOIN step.id = step_taken.step_id; 2 Other JOIN or subquery	4	2
4 GROUP BY steptaken.stepid; 3 GROUP BY title; 1 Other	4	4
HAVING	1	1
HAVING COUNT(*); Other COUNTs are accepted if PKs are considered	1	1
GREATER THAN >	1	1
COMPARISON 2	1	1
Complexity: - 3 complex query (more than one additional tables or joins); - 2 complex query (no more than one additional table or join or nested subquery; -1 additional columns; -1 use of DISTINCT	-3	-2
FORMAT: -3 missing components or image is not matching the query output, -1 missing/incorrect number of results	-3	0
Total for Question 4	20	16
<b>Question 5</b>		
SELECT contains the column stepid	2	2
SELECT contains the column title	2	2
Select COUNT()	2	2
FROM TABLES step_taken, step	4	4
4 INNER JOIN step.id = step_taken.step_id; 2 Other JOIN or subquery	4	2
4 GROUP BY stepid, title; 3 GROUP BY stepid; 1 GROUP BY title; Other	4	3
2 HAVING COUNT(*); 1 OTHER	2	2
4 OPERATOR i) >= ii) = ; 2 OTHER	4	4
SUBQUERY i) all (select count(*) ii) (select count(*)	1	1
SUBQUERY TABLE step_taken	1	1
SUBQUERY GROUP BY step_id	2	2
SUBQUERY a) ORDER BY i) count(*) ii) count(*) limit 1 b) MAX() c) >=ALL used together	2	2
Complexity: - 3 complex query (more than one additional tables or joins); - 2 complex query (no more than one additional table or join or nested subquery; -1 additional columns; -1 use of DISTINCT	-3	-2
FORMAT: -3 missing components or image is not matching the	-3	0

Criterion	Available marks	Your mark
query output, -1 missing/incorrect number of results		
Total for Question 5	30	25
<b>Question 6</b>		
SELECT contains title	1	1
SELECT contains COUNT()	1	1
SELECT contains AVG(rating)	1	1
rating presented with: CAST = 3; FORMAT/ROUND/TRUNCATE/ CONVERT = 2; none = 0;	3	2
precision is to 2 decimal points	1	1
nicely readable name given to result column	1	1
FROM contains a JOIN of step_taken and step	6	6
OUTER JOIN is used	6	6
GROUP BY is used	3	3
GROUP BY field is: step_id only = 0; title only = 1; step_id and title = 3;	3	3
Query contains ORDER BY the average rating	1	1
ORDER BY uses: raw average = 2; ROUND/TRUNCATE/CAST/ CONVERT = 1; FORMAT = 0	2	0
ORDER BY is DESC	1	1
Deduction (up to -3 for SQL complexity & format)	-3	
Total for Question 6	30	27
<b>Question 7</b>		
SELECT contains title	1	1
second column returns the correct count	8	8
nicely readable name given to result column	1	1
Logic for establishing steps taken by user 1 and user 2. One of: 9 - correctly finds steps taken by both user 1 and user 2; 5 - attempt is partially correct (e.g. finds steps taken by user 1 or user 2 but not both); 0 - no attempt is made	9	9
Logic for calculating the combined number of times for both users. One of: 9 - correct logic implemented through sub-query(s) and/or joins; 5 - attempt is partially correct; 0 - no attempt is made	9	9
Efficiency of approach. One of: 6 - concise, efficient query; 4 - good approach, query could be tighter; 2 - convoluted query, resulting in more work than necessary or inadequate query	6	4
Ability to generalise solution (e.g. what if we asked for users 1, 2 and 3?) One of: 6 - trivial query rewriting required; 4 - some query re-writing / re-arranging required; 2 - substantial query rewrite	6	6

Criterion	Available marks	Your mark
Deduction (up to -4 for SQL complexity & format)	-4	
Total for Question 7	40	38
<b>Question 8</b>		
SELECT id, first_name, last_name	3	3
Successfully calculates age	8	6
readable, informative column names for Age, Following Count and Follower Count	3	3
Successfully calculates following count	10	10
Successfully calculates follower count	10	10
for WHERE [Calculated Age] >= 21	4	3
ORDER BY first_name ASC, last_name ASC	2	2
Total for Question 8	40	37
<b>Question 9</b>		
SELECT statement has the five required columns	6	6
user INNER JOIN step_taken ON user.id = step_taken.user_id	8	8
INNER JOIN step ON step.id = step_taken.step_id	8	8
INNER JOIN step_theme on step.id = step_theme.step_id	8	8
INNER JOIN theme on step_theme.theme_id = theme.id	8	8
GROUP BY user.id, theme.id	4	4
Output correctness format	8	8
Deduction (up to -5 for SQL complexity & format)	-5	0
Total for Question 9	50	50
<b>Question 10A</b>		
Logic: 0: Generally incorrect logic; 6: Not a sufficient choice of joined tables; 16: Correct choice of tables to join but incorrect logic; 20: Minor error in logic; 24: OK	24	24
Display: 3: Superfluous value(s) in final selection; 0: Missing value(s); 5: OK	5	5
Complexity: 10-3r where r is redundant table and construct count, min 0, max 10	10	10
Grouping: 0: Bad value grouping or filtering; 8: OK	8	8
Syntax: 0: Bad syntax; 1: Confusing syntax; 2: Minor syntax error(s); 3: OK	3	3
Total for Question 10A	50	50
<b>Question 10B</b>		
Logic: 0: Generally incorrect logic; 6: Not a sufficient choice of joined tables; 16: Correct choice of tables to join but incorrect logic; 20: Minor error in logic; 24: OK	24	0

Criterion	Available marks	Your mark
Display: 3: Superfluous value(s) in final selection; 0: Missing value(s); 5: OK	5	0
Complexity: 10-3r where r is redundant table and construct count, min 0, max 10	10	0
Grouping: 0: Bad value grouping or filtering; 8: OK	8	0
Syntax: 0: Bad syntax; 1: Confusing syntax; 2: Minor syntax error(s); 3: OK	3	0
Total for Question 10B	50	0
<b>Penalties</b>		
Late penalty (if applicable)		
<b>Overall mark for Assignment 2</b>	<b>300</b>	<b>274</b>