INFO20003 Database Systems
Semester 2 2019

Assignment 3 feedback for **Jeremy Huang (1046432)**

Criterion	Available marks	Your mark
Question 1		
a) Npages (Parts) calculation	2	2
a) Npages (Supply) calculation	2	2
a) Correct cost formula	4	4
a) Correct total cost	2	2
b) Correct number of blocks	4	4
b) Correct formula	4	4
b) Correct total cost	2	2
c) Correct sort cost	4	4
c) Correct formula for join	4	4
c) Correct total cost	2	2
d) Correct formula	5	5
d) Correct total cost	5	5
e) Correct lowest cost	5	5
e) Correct minimum number of buffer pages	5	5
Total for Question 1	50	50
Question 2		
a) Reduction factor (salary) showing formula	3	3
a) Reduction factor (department) showing formula	3	3
a) Result size formula	2	2
a) Correct result size	2	2
b) Cost of index scan	4	4
b) Cost of full table scan	4	4
b) Stating best cost and best access path	2	2
c) Cost of index scan	5	5
c) Cost of full table scan	2	2
c) Stating best cost and best access path	3	3
d) Cost of index scan	5	5
d) Cost of full table scan	2	2
d) Stating best cost and best access path	3	3
e) Stating that a hash index cannot be used	5	5
e) Cost of full scan	2	2

Criterion	Available marks	Your mark
e) Stating which access path is the best	3	3
Total for Question 2	50	50
Question 3		
a) Reduction factor (eid) showing formula	4	4
a) Reduction factor (projid) showing formula	4	4
a) Reduction factor (salary) showing formula	3	3
a) Reduction factor (code) showing formula	3	3
a) Result size formula	3	3
a) Correct result size	3	3
b) Plan 1: Number of pages in Employee	2	2
b) Plan 1: Number of pages in Project	2	2
b) Plan 1: Number of pages in Department	2	2
b) Plan 1: Cost of joining Employee & Project	3	3
b) Plan 1: Resulting tuples in Employee JOIN Project	4	4
b) Plan 1: Resulting pages in Employee JOIN Project	2	2
b) Plan 1: Cost of joining with Department	3	3
b) Plan 1: Total cost	2	2
b) Plan 2: Number of pages in the three tables	3	3
b) Plan 2: Cost of joining Project & Department	3	3
b) Plan 2: Resulting tuples in Project JOIN Department	4	4
b) Plan 2: Resulting pages in Project JOIN Department	2	2
b) Plan 2: Sort costs of the join with Employee, including correct application of pipelining	3	3
b) Plan 2: Cost of joining with Employee	3	3
b) Plan 2: Total cost	2	2
b) Plan 3: Cost of Index scan to select from Employee	3	3
b) Plan 3: Resulting tuples from selection	3	3
b) Plan 3: Resulting pages from selection	2	2
b) Plan 3: Cost to join the Employee selection with Project	3	3
b) Plan 3: Resulting tuples in Employee selection JOIN Project	2	2
b) Plan 3: Resulting pages in Employee selection JOIN Project	1	1
b) Plan 3: Cost to join with Department	3	3
b) Plan 3: Total cost	3	3
b) Plan 4: Number of pages in the three tables	3	3
b) Plan 4: Realising no need to sort Project	3	3
b) Plan 4: Cost of joining Project & Department	3	3

Criterion	Available marks	Your mark
b) Plan 4: Resulting tuples from Project JOIN Department	2	2
b) Plan 4: Resulting pages from Project JOIN Department	3	3
b) Plan 4: Sort costs of the join with Employee	3	3
b) Plan 4: Total cost	3	3
Total for Question 3	100	100
Penalties		
Late penalty (if applicable)	0	
Overall mark for Assignment 3	**200**	**200**