ISYS2095 – Assessment 2

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# Part A: SQL Programming

## Task 1: Non-Nested Queries

### Question 1.1:



Figure - Question 1.1 - Query Results

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| --- |
| SELECT DEPTNAME,  count(DEPTNAME) AS DeptNameCount  FROM DEPARTMENT  WHERE DEPTNAME IS NOT NULL AND  'DeptNameCoun' != 0  GROUP BY DEPTNAME  ORDER BY DeptNameCount DESC,  DEPTNAME ASC; |

### Question 1.2:



Figure - Question 1.2 - Query Results

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| --- |
| SELECT academic.title,  academic.givename,  academic.famname,  Count(paper.title) AS PaperCount  FROM academic, interest, paper, author  WHERE academic.title like 'dr'  AND interest.descrip like '%database%'  AND interest.acnum = academic.acnum  AND paper.title like '%database%'  AND paper.panum = author.panum  AND author.acnum = academic.acnum  GROUP BY academic.acnum  ORDER BY PaperCount DESC, academic.famname ASC, academic.givename ASC; |

## Task 2: Nested Queries

### Question 2.1:



Figure - Question 2.1 Query Results

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| --- |
| SELECT department.deptnum,  department.deptname,  department.state  FROM department  WHERE UPPER(department.state) IN ("VIC", "QLD")  AND department.deptnum NOT IN ( SELECT academic.deptnum FROM academic ); |

### Question 2.2:



Figure - Question 2.2 Query Results

|  |
| --- |
| SELECT department.deptnum,  department.deptname,  department.state  FROM department  WHERE NOT EXISTS( SELECT academic.deptnum FROM academic WHERE academic.deptnum = department.deptnum GROUP BY academic.deptnum )  AND UPPER(department.state) IN ("VIC", "QLD"); |