| **Student and Assessment Information** | |
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|  | **Student Information**  Student Given Name: \_Karuna\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Student Family Name: \_\_\_Shiwakoti Dahal\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Student Number: \_\_\_\_12098117\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Campus: \_\_\_\_\_\_sydney\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | **Assessment Information**  This is a Practical Assessment. In this assessment you are required to perform a series of data analytics tasks in SAS Studio.  What to submit   1. Complete and submit this document. 2. Submit all SAS results as **PDFs**.   **The tasks to be completed are listed below.**  **Before you attempt to start this project, you need to have read, understood and completed all SAS Workshop Activities.**  **PLEASE READ THESE INSTRUCTIONS VERY CAREFULLY BEFORE YOU START.**  **File Formatting and Naming Conventions for this project**   1. This file **MUST** be named using the following convention,   ***familyname\_student\_id\_practical\_assessment***  *(For example SMITH\_s1234567\_practical\_assessment.docx)*   1. SAS programs MUST be named as follows  * Task 2: ***familyname\_student\_id\_task2.sas*** * Task 3:  ***familyname\_student\_id\_task3.sas*** * Task 4: ***familyname\_student\_id\_task4.sas***  1. SAS results MUST be named as follows  * Task 2: ***familyname\_student\_id\_task2.pdf*** * Task 3:  ***familyname\_student\_id\_task3.pdf*** * Task 4: ***familyname\_student\_id\_task4.pdf***   **Failure to follow the above formatting and naming convention will result in marks being deducted.** |
|  | **Assessment Tasks** |
|  | Identify and correct any errors in the program below: **[4 marks]**  daat work.newsalesemps;  length First\_Name $ 12  Last\_Name $ 18 Job\_Title $ 25;  infil "&path/newemps.csv" dlm=',;  input First\_Name $ Last\_Name $  Job\_Title $ Salary  run;  prc print data=work.newsalesemps;  run;  proc mean data work.newsalesemps  var Salary;  run;  Paste your corrected SAS program in the space below:  data work.newsalesemps;  length First\_Name $ 12  Last\_Name $ 18 Job\_Title $ 25;  infile "&path/newemps.csv" dlm=',’;  input First\_Name $ Last\_Name $  Job\_Title $ Salary;  run;  proc print data=work.newsalesemps;  run;  proc means data work.newsalesemps  var Salary;  run; |
|  | Use the ORION dataset and write a SAS program that performs the following tasks: **[5 marks]**   1. Write a DATA step to create a new data set named **work.trainee.** Use the data set **orion.staff** as input. 2. The **work.trainee** data set should contain only the observations where **Job\_Title** contains *Trainee* and **Salary** is greater than *$25,000.* 3. Create two new variables, **Increase** and **New\_Salary**    1. **Increase** is **Salary** multiplied by 0.10.    2. **New\_Salary** is **Salary** added to **Increase** 4. Generate a detail listing report as shown below . Display **Employee\_ID** as the identifier in place of the Obs column. Format dollar amounts as dollar10.2. 5. Include titles in the report stating “Trainee Salary Report” and a second line with your family name and student id. 6. Include appropriate comments/ documentation so that it is clear to the reader what your code does. 7. SAVE your program as ***familyname\_student\_id\_task2.sas*** 8. SAVE your results as ***familyname\_student\_id\_task2.pdf***   Note: Use the **Download Results as a PDF File** button on the Results tab.    Paste your completed SAS program in the space below: |
|  | Use the ORION dataset and write a SAS program that performs the following tasks: **[6 marks]**  Create a report that includes how many years each employee has been employed.   1. The report should contain the columns **Employee\_ID**, **Employee\_Hire\_Date**, and **Years\_Worked**. Obtain the data for the report from the **orion.employee\_payroll** table. 2. Calculate **Years\_Worked** as **int((‘31Dec19’d - Employee\_Hire\_Date)/365.25)**. 3. Add the following title to the report: “**Years of Employment”**. Also include a title showing your family name and student id. 4. Display **Employee\_Hire\_Date** and **Years\_Worked**. Include only employees that are **still** **working** for the company. Format **Employee\_Hire\_Date** values using the MMDDYY10. format. Show the results in descending years order, then employee\_id ascending. 5. Label each column appropriately. 6. Include appropriate comments/ documentation so that it is clear to the reader what your code does. 7. SAVE your program as ***familyname\_student\_id\_task3.sas*** 8. SAVE your results as ***familyname\_student\_id\_task3.pdf***   Paste your completed SAS program in the space below: |
|  | Use the ORION dataset and write a SAS program that performs the following tasks: **[5 marks]**  Create a report showing home phone numbers for staff residing in Australia.   1. The report should be titled **Employee Names and Phone numbers** and should display the employee id, employee name, city and home phone number for employees residing in Australia. Include an additional title showing your family name and student id. 2. Present the report in employee id order within city order. 3. Include appropriate comments/ documentation so that it is clear to the reader what your code does. 4. SAVE your program as ***familyname\_student\_id\_task4.sas*** 5. SAVE your results as ***familyname\_student\_id\_task4.pdf***   Paste your completed SAS program in the space below on next page: |