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| **Name: Ayush Patel**  **Roll: A232**  **Semester: VII**  **Class: Btech IT (4th year)**  **Branch: A** |
| **Practical-9**  **Aim:** To produce Frequency tables and create files with ODS statements for given business scenario.   1. Use Sales.csv file to create dataset. 2. Designed 1-way frequency table 3. Designed 2-way frequency table. 4. Use nocum and nopercent option 5. nlevel , order option.      1. Use Proc mean for above scenario to find average salary of employee. 2. Use proc univariant to display extreme observations for salary variable. 3. ODS Statement to display report     **Part A** |
| **Theory** |
| **FREQ Procedure**  The FREQ procedure produces a one-way frequency table for each variable named in the TABLES statement.    If the TABLES statement is omitted, a one-way frequency table is produced for ***every*** variable  in the data set. This can produce a large amount  of output and is seldom preferred.  The MEANS procedure produces summary reports  with descriptive statistics.     * + *Analysis variables* are the ***numeric*** variables  for which statistics are to be computed.   + *Classification variables* are variables whose values define subgroups for the analysis. They can be character or numeric.   **UNIVARIATE Procedure**  *PROC UNIVARIATE* displays extreme observations, missing values, and other statistics for the variables included in the VAR statement.    The *Extreme Observations* section includes the five lowest and five highest values for the analysis variable and the corresponding observation numbers |
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| **Procedure:**   1. Open SAS Studio and write the SAS program |
| **Instructions:**   1. Write source code of all stored procedure 2. Copy code & paste in code section of Part B. |

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| **Part B** |
| **Code:**  data work.subset; infile "/home/u59005730/sasuser.v94/nonsales.csv" dlm=','; input Employee\_ID First\_Name :$12.  Last\_Name :$18. Gender :$1. Salary  Job\_Title :$25. Country :$2.; run;  ods pdf file="/home/u59005730/sasuser.v94/Myreport.pdf";  proc freq data=work.subset;  table gender;  run;  proc freq data=work.subset nlevels;  table gender country/nocum nopercent;  run;  proc means data=work.subset;  var salary;  class country;  run;  proc univariate data=work.subset nextrobs=3;  var salary;  id employee\_id;  run;  ods close pdf;  ods html;  **OUTPUT:** |
| **Observation & Learning:**  We learnt to produce frequency tables and create files with ODS statements for given business scenario. |
| **Conclusion:**  We learnt to produce frequency tables and create files with ODS statements for given business scenario. |