Assessment Task (50%)

Part 1 (Business Drivers)

Select a subject for analysis using data warehousing techniques from the operational data captured in the Microsoft training Northwind database (E-R model included in this document). Document your reasons for selecting this subject area, identify key stakeholders, formalise the vision and goals of the data warehouse.

[5]

Part 2 (Data Modelling)

Develop and present a suitable schema for the data warehouse (data mart). Discuss your reasons for the design.

[15]

Part 3 (Implement Tables and ETL procedure)

Using Microsoft SQL Server, implement your tables and extract, transform and load data from the operational database into the data warehouse (datamart). This can be done using any available tool including SQL queries.

[10]

What would be a motivation for using the Microsoft solution? Compare the Microsoft solution with a competitive data warehousing solution from another vendor.

[5]

Part 4 (Reporting and Analysis)

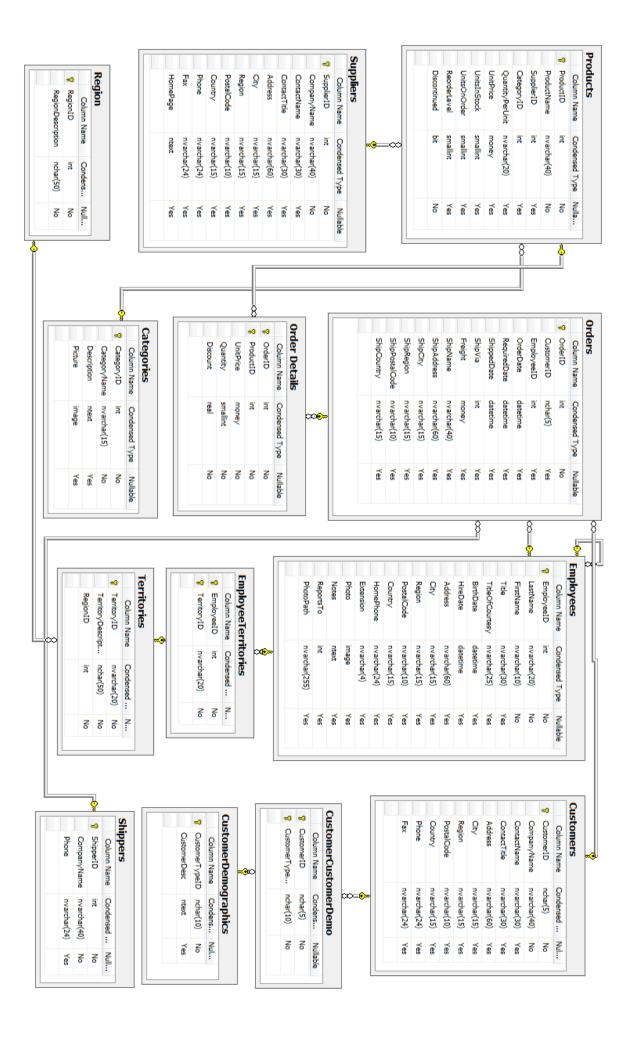
Produce reports and analyses in support of the requirements outlined in Part 1. You can use <u>any</u> suitable tool including SSDT (SQL Server Data Tools – not available at DBS but can be downloaded on laptops), SQL Server queries, PowerBI or Tableau.

[15]

Submission

A zipped file should be submitted online (20-01-2019 23:55) including an individual report as well as supporting SQL and reporting scripts and workbooks. The report should detail steps followed and include relevant screenshots, observations, and findings under the part headings. Time will be allocated for group work and discussion during the module lectures.

The grade assessment will be based on the DBS CA grading scheme which has been included in this document.



DBS Grade Assessment Policy (B8IT104)

Module Descriptor	Mark Band	Criteria	Determinator within grade band
A (Outstanding)	80-100	 Displays a thorough and systematic knowledge of module content, solution and handover process and documentation. Clear grasp of the issues involved, with evidence of innovative and original use of learning resources. Knowledge beyond module content. Clear evidence of independence of thought and originality Methodological rigour High critical judgement and confident grasp of complex issues 	Excellent insight into business drivers / data modelling / ETL / Reporting.
A (Clear)	70-79	 Methodological rigour Originality Critical judgement Use of additional learning resources 	Evidence of a thorough, inquiring and rigorous approach in applying tools and techniques.
В	60-69	 Very good knowledge and understanding of the module content. Well-argued answer Some evidence of originality and critical judgement Sound methodology Critical judgement and some grasp of complex issues. 	Evidence of making good use of all available learning materials.
С	50-59	 Good knowledge and understanding of the module content. Reasonably well-argued answer Largely descriptive or narrative in focus Methodological application is not consistent or thorough 	Mastery of the fundamentals of technique and tool application.
D E (Fail)	40-49 0-39	 Lacking methodological application Adequately argued Basic understanding and knowledge Gaps or inaccuracies but not damaging 	Satisfactory application of tools and techniques in attempting all questions Lack of
c (rall)	0-33		understanding of theory, techniques and ability to apply tools.

General Requirements for Students:

PLEASE READ CAREFULLY

- 1. It is your responsibility to ensure your file is uploaded correctly.
- 2. Students are required to retain a copy of each assignment.
- 3. When an assignment is submitted, it is the student's responsibility to ensure that the file is in the correct format and opens correctly.
- 4. Students should refer to the assessment regulations in their Course Guide.
- 5. DBS penalises students who engage in academic impropriety (i.e. plagiarism, Collusion and / or copying). Please refer to the referencing guidelines on Moodle for information on correct referencing.
- 6. All relevant provisions of the Assessment Regulations must be complied with.
- 7. Penalties for late submission of assignments are as follows:
 - a. 25% penalty for assignments submitted within 5 working days of the deadline.
 - b. No marks for assignments submitted more than 5 working days after the deadline.
- 8. Extensions to assignment submission deadlines will be granted in exceptional circumstances only. The appropriate "Application for Extension" form must be used and supporting documentation (e.g. medical certificate) must be attached. Applications for extensions should be made directly to the Head of Year or Programme Leader in advance of the deadline date.