OCR
Oxford Cambridge and RSA

Applied ICT
OCR GCE H515/H715 Unit G057
Unit Recording Sheet

Please read the instructions before completing this form

Examination Session		Year	

Unit Code	G057	Unit Title	Database Design

Centre Number		Centre Name	

Candidate Number		Candidate Name	

Evidence: a relational database to meet a given specification requiring at least **three** related tables supported by design and analysis notes, technical and user documentation and an evaluation of the database produced.

The candidate's evidence needs to include: analysis and design notes; normalisation of the data model to 3rd normal form (NF) with documentation; a user interface including data input forms and methods of obtaining output; a working relational database; user and technical documentation; test plans and results of testing of the database; evaluation of the effectiveness of their solution and performance.

If work is a re-sit, please tick		Session and Year of previous submission	January/June	**2**	**0**		Please tick to indicate this work has been standardised internally	

A.1 Criteria (0 - 1 - 2 marks)	**Comment**	**Page**
• The candidate produces analysis and design notes that present the initial data model;		
A.2 Criteria (3 - 4 marks)		
• The candidate produces analysis and design notes that use technical language fluently, and which includes the design of the user interface, and screen and printed reports;		
A.3 Criteria (5 - 6 marks)		**Mark** (Max 6)
• The candidate produces full and complete analysis and design notes that use technical language fluently and correctly, and which includes the design of the user interface, screen and printed reports.		

B(i).1 Criteria (0 - 1 - 2 marks)	**Comment**	**Page**
• The candidate shows, in a graphical form, the normalisation of the data model to 1st normal form; • the candidate produces incomplete documentation that shows some of the entities, attributes, keys, relationships and internally-generated or processed data;		
B(i).2 Criteria (3 - 4 marks)		
• The candidate shows the process of normalisation of the data model to 2nd normal form; • the candidate produces an ERD in 2nd NF and documentation that shows all entities, attributes, keys, relationships and internally-generated or processed data;		
B(i).3 Criteria (5 - 6 marks)		**Mark** (Max 6)
• The candidate shows the process of the normalisation of the data model to 3rd normal form; • the candidate produces an ERD in 3rd NF and produce complete and detailed documentation that shows all entities, attributes, keys, relationships and internally-generated or processed data.		

C.1 Criteria (0 - 1 - 2 - 3 marks)	**Comment**	**Page**
• The candidate produces a user interface and suitable and correct data input forms and provide straightforward means of obtaining output;		
C.2 Criteria (4 - 5 - 6 marks)		
• The candidate makes effective use of validation and produces a user-friendly, well laid out user interface, and data input forms with title labels, field names, set widths, pull down lists and instructions, as appropriate;		
C.3 Criteria (7 - 8 - 9 marks)		**Mark** (Max 9)
• The candidate produces a fully-customised user interface that hides the underlying database from the user and provides input forms that allow data entry into multiple tables.		

D.1 Criteria (0 - 1 - 2 marks)	Comment	Page
• The candidate produces a working relational database that allows the user to append, delete and edit data, run queries and print reports;		
D.2 Criteria (3 - 4 marks)		
• The candidate produces a working relational database; • the candidate creates reports that make use of queries, using data from more than one related table, and include grouping or arithmetic formulae;		
D.3 Criteria (5 - 6 marks)		**Mark** **(Max 6)**
• The candidate produces a working relational database; • the candidate creates reports that make correct and effective use of queries, using data from more than one related table, grouping and arithmetic formulae		

E.1 Criteria (0 - 1 - 2 marks)	Comment	Page
• The candidate produces a user guide that enables a novice user to make effective use of the database; • the candidate produces technical documentation that defines clearly and accurately the database structure, data relationships and the range of acceptable data; • the candidate includes example output from queries and reports;		
E.2 Criteria (3 - 4 - 5 marks)		
• The candidate makes good use of graphic images and use annotated screen prints to create effective user instructions for the database. • the candidate produces technical documentation that defines clearly and accurately the database structure and data relationships; • the candidate includes a data dictionary including the range of acceptable data and associated validation routines; • the candidate includes example output from queries and reports;		
E.3 Criteria (6 - 7 - 8 marks)		**Mark** **(Max 8)**
• The candidate makes good use of graphic images and use annotated screen prints to create effective user instructions for the database; • the candidate creates high-quality technical documentation that would enable someone else to recreate or maintain the database; • the candidate define clearly and accurately the database structure and data relationships in the technical documentation; • the candidate includes a data dictionary including the range of acceptable data and associated validation routines; • the candidate includes example output from queries and reports.		

F.1 Criteria (0 - 1 - 2 - 3 marks)	Comment	Page
• The candidate plans and carries out basic test procedures to demonstrate that the database meets the specification, including ensuring that the user can append, delete and edit data successfully, and that the queries and reports generate the expected outcomes; • using the results of their testing the candidate comments on the operation of the database in relation to user needs;		
F.2 Criteria (4 - 5 - 6 marks)		
• The candidate designs and carries out systematic test procedures, covering most aspects of the database; • using the results of their testing the candidate comments on the operation of the database, and how well it meets the specification;		
F.3 Criteria (7 - 8 - 9 marks)		**Mark** **(Max 9)**
• The candidate designs and carries out systematic and comprehensive test procedures covering all aspects of the database, including rejection of data outside the acceptable range; • using the results of their testing the candidate provide a critical analysis of the operation of their database solution and how well it meets the specification.		

G.1 Criteria (0 - 1 - 2 marks)	Comment	Page
• The candidate comments on the effectiveness of the final solution identifying how well it meets the defined user requirements, with some identification of how the solution could be improved; • the candidate evaluates aspects of their actions and role in solving the problem and identify areas for improvement; • the candidate's report may contain errors in spelling, punctuation and grammar;		
G.2 Criteria (3 - 4 marks)		
• The candidate provides an analysis of the final solution identifying how well it meets the defined user requirements and its strengths and weaknesses in order to identify how the solution could be improved; • the candidate evaluates their own performance by identifying strengths and weaknesses, with some suggestions for improvement to the overall process; • the candidate's report contains few errors in spelling, punctuation and grammar;		
G.3 Criteria (5 - 6 marks)		
• The candidate provides a full critical analysis of the final solution identifying how well it meets the defined user requirements, taking into account user feedback in order to identify how the work could be improved in the future; • the candidate evaluates their own performance by identifying strengths and weaknesses, and uses this analysis to show how they will address these issues to be more effective in the future; • the candidate's report is consistently well-structured and there will be few, if any errors in spelling, punctuation and grammar.		**Mark** **(Max 6)**
Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website (www.ocr.org.uk).	**MARK TOTAL**	

Guidance on Completion of this Form

1   **One** form should be used for each candidate.

2   Please ensure that the appropriate boxes at the top of the form are completed.

3   Please enter *specific* page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.

4   Enter the mark awarded for each strand of the marking criteria in the appropriate box and also enter the final mark in the total column.

5   Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.

Extra Comment (please indicate to which Criteria comments refer)

URS820 Revised September 2014   **URS/G057**

Oxford Cambridge and RSA Examinations