



Cambridge International AS & A Level

INFORMATION TECHNOLOGY

9626/02

Paper 2 Practical

October/November 2021

MARK SCHEME

Maximum Mark: 110

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **10** printed pages.

PUBLISHED**Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

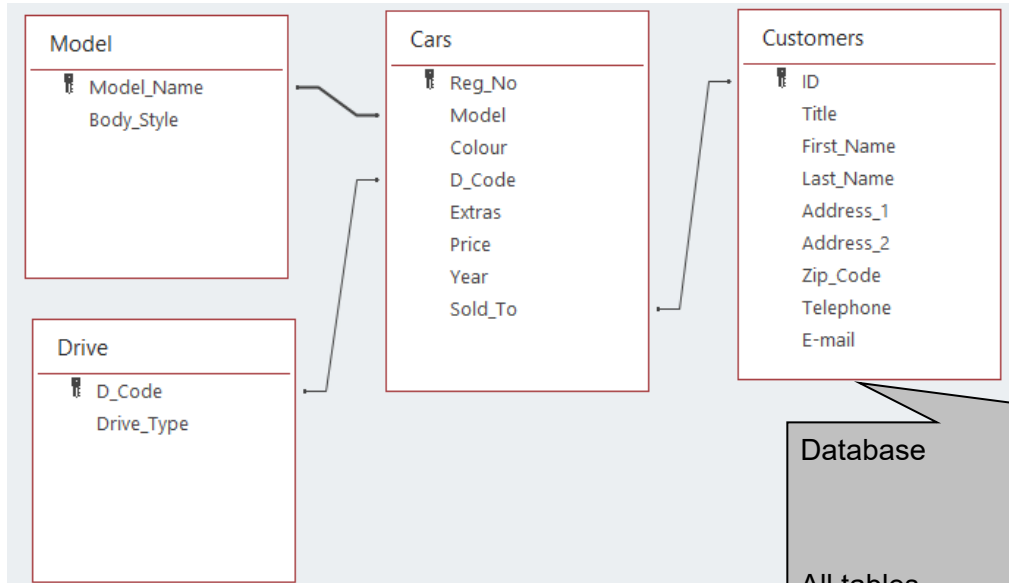
PUBLISHED**Q1 Audio**

n21voice_	Clip speed 1.5× original	1 mark
	We are a true eco-friendly company removed from end	1 mark
	We are a true eco-friendly company placed at start	1 mark
	Clip =< 13 seconds long	1 mark
	Voice only amplified to maximum ...	1 mark
	... without clipping	1 mark
Music	Starts at same time as voice clip	1 mark
	Both clips same length ...	1 mark
	... no loss of voice track or distortion	1 mark
Stereo	Saved as stereo	1 mark
	Music in left channel	1 mark
	Voice in right channel	1 mark
	Exported in mp3 format as n21sound_ZZ999_9999.mp3	1 mark

Q2, 3 and 4 Video

0 seconds:	Video software aspect ratio set to 16:9	1 mark
	Resolution 854 × 480	1 mark
	n21TEC2 & n21TEC4 exported in .mp4 format	1 mark
	Title background set to n21TEC1	1 mark
	2 seconds:	1 mark
	Tawara Eco-Cars placed	1 mark
	Text in sans-serif font of appropriate size	1 mark
	Top right of screen	1 mark
	Appropriate colour selection to be clearly visible	1 mark
	5 seconds:	1 mark
	Title and bg retained with no adjustment/movement	1 mark
	Add the text Sustainable cars for a sustainable world	1 mark
	Set as an appropriate subtitle	1 mark
	8 seconds audio clip n21sound starts	1 mark
	Audio clip n21sound complete	1 mark
	10 seconds	1 mark
	Still image extracted from first frame of n21TEC2.mp4 ... displayed as background	1 mark
When transition finished ... Video file n21TEC2 plays	1 mark	
14 seconds	1 mark	
Image n21TEC3 placed as background	1 mark	
Transition to open image n21TEC3 same transition between image and next clip	1 mark	
18 seconds	1 mark	
Video file n21TEC4 plays as background for credits	1 mark	
Last 5 seconds:	1 mark	
Credits scroll up the screen	1 mark	
Credits include	Created by: Candidate details in appropriate format	1 mark
	Filmed by: Tawara Video Ltd	1 mark
	Audio by: KMBaudio	1 mark
	Appropriate blank line(s) as spacing between credits	1 mark
	Credits are in a large easily read font with good contrast	1 mark
	Movie exported / saved as n21video_ in mp4 format	1 mark

Q5



Database
 Cars table data 1 mark
 Customers table data 1 mark
 Model table data 1 mark
 Drive table data 1 mark
 All tables
 No spaces in field names 1 mark
 No repeated fields / duplicate data 1 mark
 Short meaningful field names 1 mark

Edit Relationships

Table/Query: Model Related Table/Query: Cars

Model_Name Model

Enforce Referential Integrity

Cascade Update Related Fields

Cascade Delete Related Records

Relationship Type: One-To-Many

Edit Relationships

Table/Query: Drive Related Table/Query: Cars

D_Code D_Code

Enforce Referential Integrity

Cascade Update Related Fields

Cascade Delete Related Records

Relationship Type: One-To-Many

Edit Relationships

Table/Query: Customers Related Table/Query: Cars

ID Sold_To

Enforce Referential Integrity

Cascade Update Related Fields

Cascade Delete Related Records

Relationship Type: One-To-Many

Customers.ID to Cars.Sold_To 2 marks
 1 to many 1 mark
 Model.Name to Cars.Model 2 marks
 1 to many 1 mark
 Drive.D_Code to Cars.D_Code 2 marks
 1 to many 1 mark

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Cars	
Field Name	Data Type
Reg_No	Short Text
Model	Short Text
Colour	Short Text
D_Code	Short Text
Extras	Short Text
Price	Currency
Year	Number
Sold_To	Short Text

Customers	
Field Name	Data Type
ID	Short Text
Title	Short Text
First_Name	Short Text
Last_Name	Short Text
Address_1	Short Text
Address_2	Short Text
Zip_Code	Short Text
Telephone	Short Text
E-mail	Short Text

Cars table

Table name – appropriate e.g. Car, Cars, Vehicles	1 mark
Appropriate field names	1 mark
Reg_No as primary key	1 mark
Price field as currency/numeric	1 mark
Stored as integer	1 mark
Year data type restricted to integer	1 mark
Other fields alphanumeric/text	1 mark
At least 1 appropriate validation routine	1 mark
Reg_No – 7 characters long	1 mark
DCode – 1 character long	1 mark
Extras – 3 characters long	1 mark
Sold_To – 10 Characters long	1 mark

Customer table

Table name – appropriate e.g. Customer(s)	1 mark
Appropriate field names	1 mark
Appropriate data types	1 mark
ID/Cust_ID as primary key & alphanumeric	1 mark
At least one field size / any extra metadata	1 mark

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Field Name	Data Type
D_Code	Short Text
Drive_Type	Short Text

- Drive table Table name – appropriate e.g. Drive 1 mark
- Appropriate field names 1 mark
- D_Code as primary key 1 mark
- Both data types alphanumeric 1 mark
- Both field lengths restricted (1 and 16) 1 mark
- Appropriate validation routine 1 mark

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Model Table Design:

Field Name	Data Type
Model_Name	Short Text
Body_Style	Short Text

Cars Table Design:

Field Name	Data Type
Reg_No	Short Text
Model	Short Text
Colour	Short Text
D_Code	Short Text
Extras	Short Text
Price	Number
Year	Number
Sold_To	Yes/No

Query Design:

Field:	Model	Colour	Cars_D_Code: D_Code	Extras	Price
Reg_No	Model	Colour	Cars_D_Code: D_Code	Extras	Price
Table:	Cars	Cars	Cars	Cars	Cars
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Criteria:	[Enter the name of the Model]	[Enter the colour]		[Enter the code/s for the extras]	
or:					

Marking Scheme for Model Table:

Model table	Table name – appropriate e.g. Model	1 mark
	Appropriate field names	1 mark
	Model_Name as primary key	1 mark
	Both data types alphanumeric	1 mark
	Both field lengths restricted (12 and 9)	1 mark
	Appropriate validation routine	1 mark

Marking Scheme for Query:

Query	Dynamic query created	1 mark
	... on only data for sold vehicles	1 mark
	Dynamic input for model name field	1 mark
	Dynamic input for colour field	1 mark
	Dynamic input for extras field	1 mark
	All 3 inputs – appropriate input text	1 mark

Selected vehicles by A Candidate ZZ999 9999

Reg_No	Model	Colour	Drive_Type	Extras	Price	Year	Body_Style
AT432LX	Alphadrive	Midnight Blue	Electric Cell	CLS	£8,450	2021	Coupe
Mrs.	Chloe	Kemp	32 Exning Road		Hargate		NR16 0XB
070 1663 7298	ChloeKemp@jourrapide.com						

Report from query	Appropriate title with candidate details	1 mark
	Black text on a grey background for title	1 mark
	Only 8 title text boxes fully visible ...	1 mark
	... horizontally aligned	1 mark
	... containing the vehicle details only	1 mark
	Top data row contains only 8 vehicle details & fully visible	1 mark
	Second data row contains only 6 purchaser details & fully visible	1 mark
	Third data row contains only telephone and email addresses & fully visible	1 mark
Step_6a pdf	Correct record located – AT432LX	1 mark
	Report as a single page	1 mark
	Exported as step_6a_ZZ999_9999.pdf file	1 mark

Selected vehicles by A Candidate ZZ999 9999

Reg_No	Model	Colour	Drive_Type	Extras	Price	Year	Body_Style
CB293UG	Finesse	Black	Residual Battery	L	£14,350	2019	Sports
Mrs.	Lauren	George	35 Argyll Road		Llandinam		SY17 8EH
070 6021 9742	LaurenGeorge@armyspy.com						

DA566VH	Finesse	Black	Residual Battery	L	£14,350	2020	Sports
Mr.	Adam	Edwards	7 Circle Way		Cadeby		DN5 1DQ
078 3536 3418	AdamEdwards@gustr.com						

Step_6b pdf	Correct records located – CB293UG & DA566VH	1 mark
	Exported as step_6b_ZZ999_9999.pdf file	1 mark