

INFORMATION TECHNOLOGY

9626/02 October/November 2019

Paper 2 Practical 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 2019 series for most Cambridge IGCSE[™], Cambridge International A and AS Level components and some Cambridge O Level components.

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.

Video

	Ellmau video	0	1 mark
	Title frames	Title background – white	1 mark
		Image ski1.jpg present on left edge	1 mark
		Image ski1.jpg present on right edge	1 mark
		No cropping of both images	1 mark
		Title frame at start with white background	1 mark
		Title 7 seconds duration	1 mark
		Title text Ellmau Kinder-Skischule	1 mark
		Middle centre of screen and clearly visible	1 mark
		Red 60 point sans-serif font	1 mark
		Effect added for title text animation	1 mark
		effect does not hinder readability	1 mark
		effect added to give sufficient time to read text within 7 secs	1 mark
	Video 1	Skischule1.mp4 placed after title frames	1 mark
		End of video cut	1 mark
		Only 8 seconds of video remain	1 mark
		Soundtrack removed from clip	1 mark
	Video 2	Skischule2.mp4 placed after Skischule1	1 mark
		End of video cut so 13 seconds remain	1 mark
		Soundtrack removed from clip	1 mark
		Single 3 second transition effect between 2 videos	1 mark
	Caption	Snapshot of last frame extracted in appropriate format	1 mark
		Placed after video clip	1 mark
		Caption frame 7 seconds duration	1 mark
		Caption in visible font with reasonably good contrast	1 mark
		Caption text includes Children's Ski School (or similar)	1 mark
		Caption text includes Learn to ski (or similar)	1 mark
		Caption text includes Ellmau	1 mark
		Caption text includes Austria	1 mark
	Credits	Credits frame duration 7 seconds	1 mark
		Filmed by TMBvideo	1 mark
1		Location Ellmau	1 mark
		Country Austria	1 mark
		Appropriate blank line/s as spacing between credits	1 mark
		Candidate name and numbers in credits in appropriate format	1 mark
		Movie saved/exported as SkiSchool_1_ZZ999_9999	1 mark
		In mp4 format	1 mark

Normalisation

Describe five benefits of normalisation

Five descriptions from:

- 1 The database does not have redundant data, it is smaller in size so less money needs to be spent on storage
- 2 As there is less data to search through, it is much faster to run a query on the data
- 3 As there is no redundant data there is better data integrity and less risk of mistakes
- 4 As there is no redundant data there is less chance of storing two or more different copies of the data
- **5** One change can be made which can instantly be cascaded across any related records
- 6 Data is grouped logically within the database structure
- 7 Normalised databases only contain atomic data

1 mark each Max 5

Evaluation

Analyse and evaluate the given dynamic query

Six from:

- **1** It is a dynamic parameter query
- 2 It is easier for a user than hard coding the vehicle make, model and fuel type into a static query
- 3 A reason why less user expertise is needed.
- 4 The user only has to complete three dialogue boxes.
- 5 Setting up a query in this way means that it is more flexible than a static parameter query
- 6 It can be used over and over again without having to ever go back into the query design view.
- 7 Using this dynamic query limits the search criteria to only these three fields. 1 mark each Max 6

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:Eile	Horite Greate External	Data Database Tools	Design 🔍 Tell and what you want to do	
View View	Test Validation Rates 2	perty Indexes next Macros • Data ShowMids Field, Record & 3	tename/ Inter Macro Natro Sento Relationstape Relationstape Relationstape Relationstape	
70	Employer		×	
	Field Nama	DataType	Description (Optional)	
	Employar_Code	Short Text		
	Employer	Short Text		
	Address_1 Address_2	Short Text Short Text		
	Address_3	Short Text		
	Address 4	Short Text		
Navigation Pane	Gemeral Lookup Pield Stre 255 Parnat	Employ	Appropriate table name for Employer / Place Employer_Code / Place_Code (or similar) Set as alphanumeric/text/numeric Set as primary key Employer_Name / Place / Venue (or similar) Set as alphanumeric/text	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark
			Address1 field Set as alphanumeric/text Address2 field set as alphanumeric/text Address3 field set as alphanumeric/text Address4 field set as alphanumeric/text	1 mark 1 mark 1 mark 1 mark 1 mark
© UCL	ES 2019		Short meaningful consistent fieldnames Fieldnames contain no spaces 23 records with unique data	1 mark 1 mark 1 mark 1 mark 1 mark

Database

Cambridge International AS/A Level – Mark Scheme PUBLISHED

11	Employee X	Employeee	Appropriate table name for Employee	1 mark
	Field Name	Employees	Appropriate table name for Employee Surname (or similar)	1 mark
1	No. of Concession, Name			
	Forename		Set as alphanumeric / text	1 mark
	Surname		Forename (or similar)	1 mark
	The second production of the		Set as alphanumeric / text	1 mark
2	Date_Of_Birth		Date_Of_Birth (or similar)	1 mark
	Date_Employed		Set in Date / Time format	1 mark
	Job		Date_Employed (or similar)	1 mark
	Employer Code		Set in Date / Time format	1 mark
	Employer_code		Job (description)	1 mark
			Set as alphanumeric	1 mark
			Employer Code / Place Name	1 mark
			Data type matches Employer.EmployerCode	1 mark
			No additional fields	1 mark
			All fieldnames contain no spaces	1 mark
			All fieldnames short, meaningful and consistent	1 mark
			Compound Key set on Name and DOB fields	3 marks
			169 records	1 mark

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able/Query: B	elated Table/Query:		OK		
Employer 🗸 🖓	Employee	~			
Employer_Cod	Employer_Code	^	Cancel		
			loin Type		
Enforce Referential	Integrity	~	Create New.		
Cascade Update Re			nship Employ /ee.Employer_C		
Relationship Type:	One-To-Many		1 to	2 marks Many	1 mark

Query for report:	Date_Of_Birth >#31/12/1990# AND Date Employed	1 mark 1 mark 1 mark 1 mark 1 mark
1	<#02/12/2009#	1 mark

Sumame	Date_Of_Sirth	Date Employed	
Employee	Employee	Employee	
R		M	
	>#31/52/1990#	+#02/12/2009#	

L

Awards event 1st December 2019 for younger employees with over 10 years' service Report prepared by A Candidate ZZ999 9999 Administration/Office Skischule Skiverleih Kinderpiste Kapellenweg 8 6352 Ellmau 25/04/1991 20/04/2009 Vanessa Schweiger Chambermaid AktivHotel Hochfi Dorf 34 6352 Ellmau Konstantin Hofbauer 27/06/1991 21/01/2007 Restaurant staff Lobewein Dorf 22 6352 Ellmau Elias Polt 15/01/1994 06/09/2009 Ski Instructor Skischule Skiverleih Kinderpiste Kapellenweg 8 6352 Ellmau Nicolas Resch 23/04/1992 05/01/2008 Kaufmann 26/05/1992 12/11/2008 Mattia Snowboard Instructor Appropriate title for report 1 mark Report: Largest font, black background with white font 1 mark Grouped by job description 1 mark Secondary grouping by employer's / place name 1 mark ... with 4 address lines in secondary group 1 mark Detail row contains Forename and Surname 1 mark Forename & Surname dark grey background and white sans-serif font 1 mark Detail row contains DOB then Date job started 1 mark DOB and Date job started grey background and white sans-serif font 1 mark Correct 11 records extracted 1 mark

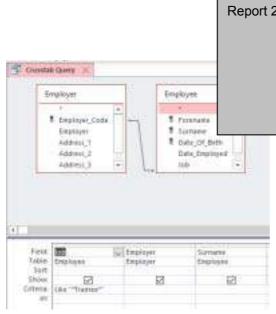
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		Leon	Schober	14/03/1994	29/09/2009
	6352 Saltzberg				
	Dorf 50				
	Sporthotel				
			McBrei	12/04/1551	00/07/2005
	0002 Liinidu	Luca	Riegler	12/04/1991	06/07/2009
	Dorf 43 6352 Ellmau				
	Dorf 42				
	Cantina Bar Mexi				
Waiter/Waitress					
		Marco	Posch	27/01/1991	17/01/2008
	6352 Ellmau				
	Kapellenweg 8				
	Kinderpiste				
	Skiverleih				
Transport Assista	Skischule				
Transport Assista	nt	WILL REP	Kogici	10/04/1991	10/03/2008
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	6352 Ellmau				
	Kinderpiste Kapellenweg 8				
	Skiverleih				
	Skischule				
Trainee Snowboa					
		Nico	Posch	10/08/1992	19/03/2008
	6352 Ellmau				
	Kapellenweg 8				
	Kinderpiste				
	Skiverleih				
	Skischule				
Trainee Ski Instru	ctor				
		Marlene	Hofmann	27/03/1991	12/12/2008
	6352 Ellmau				
	Kapellenweg 8				
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# Report Header	in the second	11	11 12 32	20 at 77	NE 11 70 33
Awards e	vent 1st Dece	mber 2019)		
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Report prep	ared by A Candid	ate ZZ999 99	99		
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Number of trainees working for each employer

Employer	Trainee Chef	Trainee Ski Instructor	Trainee Snowboard Instructor
AktivHotel Hochfilzer	2		
Cantina Bar Mexican	1		
Elimauer Alm	1		
Gasthof Gründalm	1		
Gipfelalm Hohe Salve	1		
Hotel Alte Post	1		
Skischule		9	7
Sporthotel	1		



2:	Wildcard search for Trainee Job description as column headings Employer names as row headings Count as function No totals Appropriate title Gridlines present Exported as Trainee_ ZZ999_9999.pdf	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark
	Exported as Trainee_22999_9999.pdf	I Mark