CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Advanced Subsidiary and Advanced Level

MARK SCHEME for the May/June 2015 series

9713 APPLIED INFORMATION & COMMUNICATION TECHNOLOGY

9713/02 Paper 1 (Practical Test A), maximum raw mark 120

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.

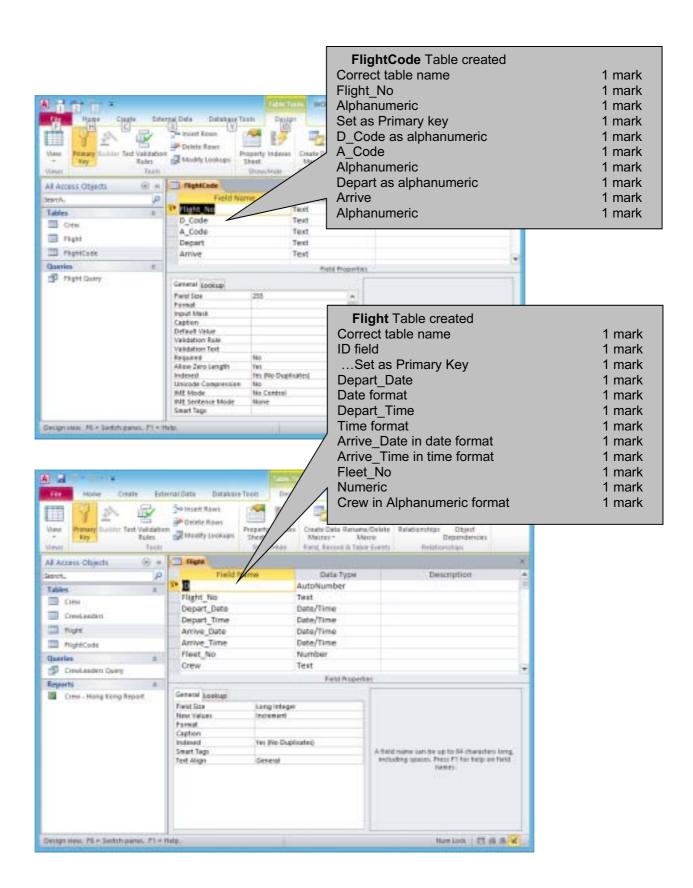
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

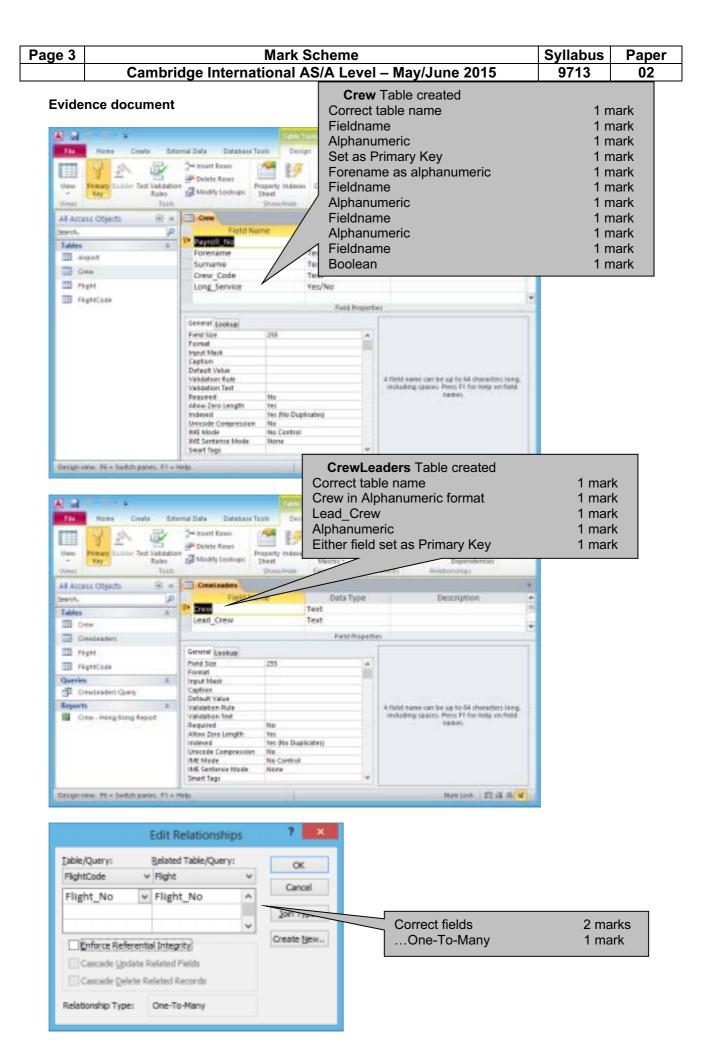
Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

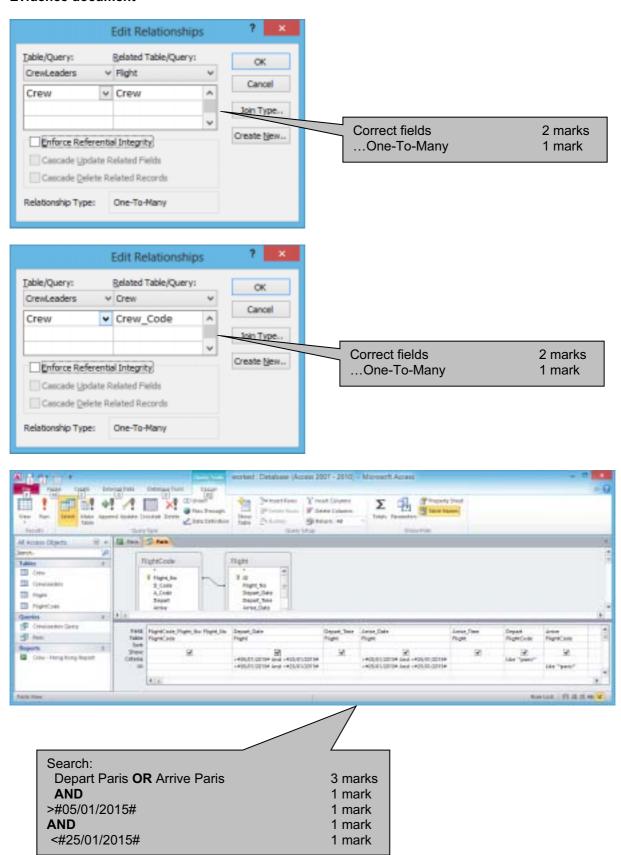


Page 2	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02





Page 4	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02



Page 5	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

Header: Appropriate title

1 mark

Heathrow

Flights arriving or departing from Paris Orly airport between 5th January 2015 and 25th January 2015

Flight Departure Date & Time Arrival Date & Time DepartArrive

TA015 16/01/2015 16:30 16/01/2015 17:45 London Heathrow Paris Orly
TA016 16/01/2015 19:10 16/01/2015 20:25 Paris Orly London

Format:

Both date fields dd/mm/yyyy 2 marks Both Time fields hh:mm 2 marks Search:

Correct 2 results 1 mark
Fields as shown 1 mark
Name & Candidate details in the footer 1 mark

Report by A Candidate, XX999, 9999

Header:

Appropriate title 1 mark

No of flights to and from each airport

D_Code	AMS	ATL	CGK	DUB	HKG	LHR	MAD	ORY	PEK	SIN	SYD
AMS						6					
ATL						6					
CGK				6							
DUB	6		6			6			6	6	
HKG						6					6
LHR		6		12	6		3	3			
MAD						3					
ORY						3					
PEK				6							
SIN				6							
SYD					6						

Report created by A Candidate, XX999, 9999

Format:

Single portrait page & **all** fully visible 1 mark Gridlines visible 1 mark

Crosstab/Pivot table:

D_Code as row headings 1 mark
A_Code as column headings 1 mark
Count as mathematical operation 1 mark
Correct values 1 mark
Name & Candidate details in the footer 1 mark

Page 6	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

Crew members who have flown to or from Hong Kong

Report prepared by: A Candidate, XX999, 9999

Header:

Appropriate title

Report prepared by: & candidate details

1 mark 1 mark

Cr C	ew_Code	Lead_Crew AC00060	Flight_No	A_Code	D_Code	Payroll_No	Forename	Surname
0		71000000	TA029	HKG	LHR			

Search: A_Code OR D_Code HKG Grouping level 1:	3 marks
Crew Code	1 mark
With Lead_Crew in group header	1 mark
Grouping level 2:Flight_NoWith A_Code in group headerWith D_Code in group header	1 mark 1 mark 1 mark
Report detail:Payroll_No, Forename & Surname only	1 mark

TA032 LHR HKG

AC00086 AC00158 AC00140 AC00086 AC00060 AC00022 AC00220 AC00220 AC00140 AC00060 AC00022 AC00060 AC00086 AC00140 AC00158 AC00158	Krystal Kevin Stuart Krystal Anthony Billy Billy Justin Justin Stuart Anthony Billy Anthony Krystal Stuart Kevin Justin	Read White Guttermann Read Campbell Green Green Brooklands Brooklands Guttermann Campbell Green Campbell Read Guttermann White Brooklands White
AC00086 AC00158 AC00140 AC00220 AC00060 AC00022 AC00060 AC00086 AC00140 AC00220 AC00158 AC00022 AC00158 AC00022 AC00158 AC00022 AC00158 AC00022	Krystal Kevin Stuart Justin Anthony Billy Anthony Krystal Stuart Justin Kevin Billy Billy Kevin Stuart Krystal Anthony Justin	Read White Guttermann Brooklands Campbell Green Campbell Read Guttermann Brooklands White Green Green White Guttermann Read Campbell Brooklands

All fields present & fully visible 1 mark
Orientation portrait 1 mark
Printed single page wide 1 mark
No crew split over 2 pages 1 mark

Page 7	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

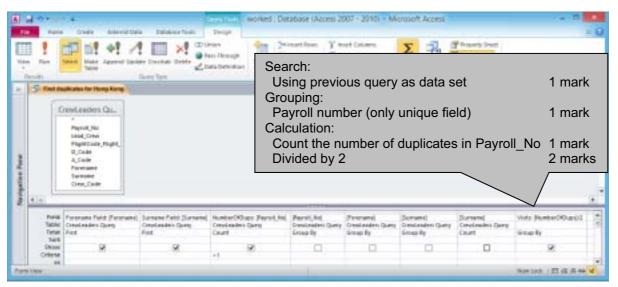
Crew_Code	Lead_Crew	Flight_No TA059	A_Code HKG	D_Code LHR	Payroll_No	Forename	Surname
					AC00158	Kevin	White
					AC00086	Krystal	Read
					AC00158	Kevin	White
					AC00130 AC00220	Justin	Brooklands
					AC00220	Justin	Brooklands
					AC00158	Kevin	White
					AC00140	Stuart	Guttermann
					AC00086	Krystal	Read
					AC00220	Justin	Brooklands
					AC00060	Anthony	Campbell
					AC00022	Billy	Green
					AC00140	Stuart	Guttermann
					AC00060	Anthony	Campbell
					AC00060	Anthony	Campbell
					AC00086	Krystal	Read
					AC00022	Billy	Green
					AC00022	Billy	Green
					AC00140	Stuart	Guttermann
		TA062	LHR	HKG			
					AC00140	Stuart	Guttermann
					AC00060	Anthony	Campbell
					AC00086	Krystal	Read
					AC00158	Kevin	White
					AC00220	Justin	Brooklands
					AC00140	Stuart	Guttermann
					AC00220	Justin	Brooklands
					AC00022	Billy	Green
					AC00140	Stuart	Guttermann
					AC00220	Justin	Brooklands
					AC00086	Krystal	Read
					AC00060	Anthony	Campbell
					AC00022	Billy	Green
					AC00086	Krystal	Read
					AC00060	Anthony	Campbell
					AC00158	Kevin	White
					AC00022	Billy	Green
					AC00158	Kevin	White
Е	AC00079				71000100	1101111	VVIIICO
_	7.000070	TA030	SYD	HKG			
		y - -			AC00058	Joe	Norfolk
					AC00021	Udoka	Onyancha
					AC00058	Joe	Norfolk
					AC00079	Jenna	Hoy
					AC00111	Wai Wai Hnin	Su
					AC00212	Sonja	Steinle
					AC00212 AC00105	Min	Wang
					AC00103 AC00079	Jenna	Hoy
					AC00079 AC00105	Min	Wang
					AC00103 AC00212	Sonja	Steinle
					AC00212 AC00111	Wai Wai Hnin	Su
					AC00111 AC00021	Udoka	Su Onyancha
					AC00021	Juuna	Onyantina

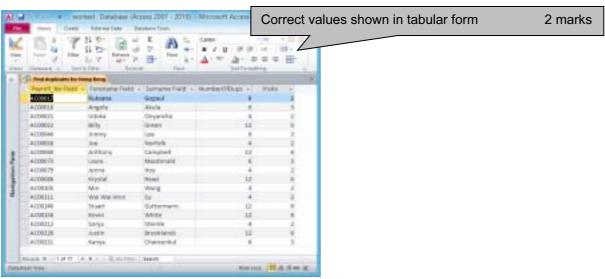
Page 8	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

Crew_Code	Lead_Crew	Flight_No TA061	A_Code	D_Code SYD	Payroll_No	Forename	Surname
F	AC00231	TAUUT	HKG	310	AC00021 AC00212 AC00021 AC00111 AC00105 AC00079 AC00212 AC00058 AC00111 AC00105 AC00079 AC00058	Udoka Sonja Udoka Wai Wai Hnin Min Jenna Sonja Joe Wai Wai Hnin Min Jenna Joe	Onyancha Steinle Onyancha Su Wang Hoy Steinle Norfolk Su Wang Hoy Norfolk
Г	AC00231	TA031	HKG	SYD			
					AC00018 AC00231 AC00046 AC00017 AC00231 AC00073 AC00231 AC00017 AC00018 AC00046 AC00046 AC00018 AC00017 AC00073 AC00073	Angela Kanya Jimmy Ruksana Kanya Laura Kanya Ruksana Angela Jimmy Jimmy Angela Ruksana Laura Laura	Akula Charoenkul Lee Gopaul Charoenkul Macdonald Charoenkul Gopaul Akula Lee Lee Akula Gopaul Macdonald Macdonald
		TA060	SYD	HKG		Laula	Macdonald
T	AC00154				AC00046 AC00017 AC00018 AC00046 AC00073 AC00231 AC00018 AC00017 AC00073 AC00018 AC00046 AC00073 AC000231 AC00017	Jimmy Ruksana Angela Jimmy Laura Kanya Kanya Angela Ruksana Laura Angela Jimmy Laura Kanya	Lee Gopaul Akula Lee Macdonald Charoenkul Charoenkul Akula Gopaul Macdonald Akula Lee Macdonald Charoenkul
ı	7000104	TA030	SYD	HKG	AC00002	Kurtis	Brown
					AC00002 AC00279 AC00167 AC00154 AC00069 AC00126	Davi Jimmy Joshua Dougie Vishnu	Jayme O'Brien Bui Ryder Patel

Page 9	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

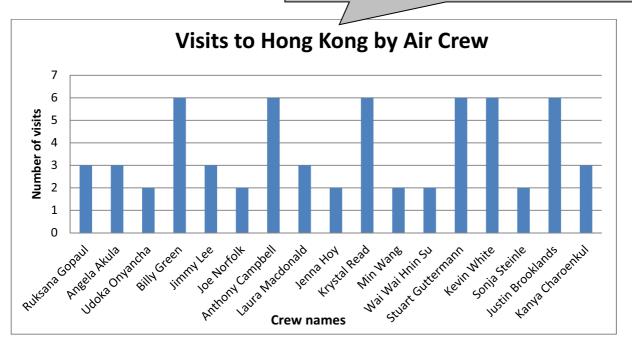
Crew_Code	Lead_Crew	Flight_No	A_Code	D_Code	Payroll_No	Forename	Surname
U	AC00090	TA061	HKG	SYD			
					AC00004	Christine	Hull
					AC00089	Naomi	Murray
					AC00090	Bex	Young
					AC00104	Liu	Teo
					AC00128	Mei-Mei	Sun
					AC00156	Lois	Thomas





Page 10	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

Chart:	
Appropriate chart type	1 mark
Appropriate title	1 mark
Correct values shown	1 mark
Both names fully visible	1 mark
Appropriate labels	1 mark



Page 11	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

A Candidate, XX999, 9999



Long Haul flights between the 16th Jan 2015 and 25th Jan 2015

									Number of the				
Flight		Departure			Arrival				aircraft in the				
number	Ŧ	Date J	Departure Time	Ŧ	Date	w	Arrival Time	r	fleet	Ŧ (rew	Ŧ	Flight duration ,T
TA029		42021	0.229166666666667		42021		0.72916666666667	7	1	(=IF(B44=D44,E44-C44,("24:00"-C44+E44))
TA030		42021	0.895833333333333		42022		0.395833333333333	3	1	E			=IF(B45=D45,E45-C45,("24:00"-C45+E45))
TA004		42021	0.8055555555555		42022		0.1423611111111111	ı	2	ı	1		=IF(B46=D46,E46-C46,("24:00"-C46+E46))
TA031		42022	0.541666666666667		42023		0.04166666666666	57	1	F			=IF(B47=D47,E47-C47,("24:00"-C47+E47))
TA005		42022	0.298611111111111		42022		0.63541666666667	7	2	J			=IF(B48=D48,E48-C48,("24:00"-C48+E48))
TA006		42022	0.75347222222222		42023		0.076388888888888	19	2	(9		=IF(B57=D57,E57-C57,("24:00"-C57+E57))
TA032		42023	0.208333333333333		42023		0.708333333333333	3	1	(:		=IF(B58=D58,E58-C58,("24:00"-C58+E58))
TA007		42023	0.25		42023		0.572916666666667	7	2		(=IF(B59=D59,E59-C59,("24:00"-C59+E59))
TA059		42024	0.229166666666667		42024		0.729166666666667	7	1	(:		=IF(B61=D61,E61-C61,("24:00"-C61+E61))
TA060		42024	0.895833333333333		42025		0.3958333333333333	}	1	F			=IF(B65=D65,E65-C65,("24:00"-C65+E65))
TA033		42024	0.427083333333333		42024		0.76388888888888)	4	F	1		=IF(B66=D66,E66-C66,("24:00"-C66+E66))
TA061		42025	0.541666666666667		42026		0.04166666666666	57	1	E			=IF(B67=D67,E67-C67,("24:00"-C67+E67))
TA034		42025	0.375		42025		0.753472222222222	2	4	F	}		=IF(B68=D68,E68-C68,("24:00"-C68+E68))
TA062		42026	0.208333333333333		42026		0.708333333333333	}	1	(:		=IF(B69=D69,E69-C69,("24:00"-C69+E69))
TA018		42026	0.8055555555555		42027		0.142361111111111	L	2	ı			=IF(B70=D70,E70-C70,("24:00"-C70+E70))
TA063		42026	0.427083333333333		42026		0.7638888888888)	4	F	3		=IF(B73=D73,E73-C73,("24:00"-C73+E73))
TA064		42027	0.375		42027		0.753472222222222	2	4	F	1		=IF(B74=D74,E74-C74,("24:00"-C74+E74))
TA019		42027	0.298611111111111		42027		0.635416666666667	7	2	ŀ	1		=IF(B75=D75,E75-C75,["24:00"-C75+E75))
TA020		42027	0.75347222222222		42028		0.076388888888888	19	2	-	И		=IF(B76=1) F76-0 Flight duration

0.572916666666667 2

If statement 1 mark B? = D?1 mark E? - C?, 1 mark "24:00" 1 mark Speech marks around 24:00 1 mark ...-C? 1 mark ...+ 1 mark ...E44 1 mark Printed on a single page & fully visible 1 mark

42028

0.25

42028

TA021

=IF(B77=D7)

Page 12	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – May/June 2015	9713	02

12:00 12:00 08:05 12:00 08:05 07:45 12:00 07:45 12:00 12:00 08:05 12:00 09:05 12:00 08:05 08:05 09:05 08:05

A Candidate, XX999, 9999



Long Haul flights between the 16th Jan 2015 and 25th Jan 2015

Name & Candidate details in the header Appropriate title	1 mark
includes Long Haul includes correct 2 dates	1 mark 1 mark
Appropriate formatting for the title Appropriate image selection Appropriate position/aspect ratio	1 mark 1 mark 1 mark

	Departure	Departure			Number of the aircraft		
Flight number	Date	Time	Arrival Date	Arrival Time	in the fleet	Crew	Flight duration
TA029	17/01/2015	05:30	17/01/2015	17:30	1	C	
TA030	17/01/2015	21:30	18/01/2015	09:30	1	E	
TA004	17/01/2015	19:20	18/01/2015	03:25	2	н	
TA031	18/01/2015	13:00	19/01/2015	01:00	1	F	
TA005	18/01/2015	07:10	18/01/2015	15:15	2		
TA006	18/01/2015	18:05	19/01/2015	01:50	2	G	
TA032	19/01/2015	05:00	19/01/2015	17:00	1	C	
TA007	19/01/2015	06:00	19/01/2015	13:45	2	! K	
TA059	20/01/2015	05:30	20/01/2015	17:30	1	C	
TA060	20/01/2015	21:30	21/01/2015	09:30	1	F	
TA033	20/01/2015	10:15	20/01/2015	18:20	4	R	
TA061	21/01/2015	13:00	22/01/2015	01:00	1	E	
TA034	21/01/2015	09:00	21/01/2015	18:05	4	R	
TA062	22/01/2015	05:00	22/01/2015	17:00	1	C	
TA018	22/01/2015	19:20	23/01/2015	03:25	2	L	
TA063	22/01/2015	10:15	22/01/2015	18:20	4	R	
TA064	23/01/2015	09:00	23/01/2015	18:05	4	R	
TA019	23/01/2015	07:10	23/01/2015	15:15	2	н	
TA020	23/01/2015	18:05	24/01/2015	01:50	2	M	
TA021	24/01/2015	06:00	24/01/2015	13:45	2	N	`

Flight duration >7:30 >16 th January <25 th January	1 mark 1 mark 1 mark
Sort	
on Departure Date	1 mark
Ascending	1 mark
then:	
on Duration	1 mark
Descending	1 mark
Single page & fully visible	1 mark