

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International Diploma in ICT Advanced Level

RELATIONAL DATABASES

5205/A

Optional Module: Practical Assessment

2007

1 hour plus 15 minutes reading time

Additional Materials: Candidate Source Files

READ THESE INSTRUCTIONS FIRST

Candidates are permitted **15 minutes** reading time before attempting the paper.

Make sure that your **Centre number**, **candidate number** and **name** are clearly visible on **each printout** that you are asked to produce, before it is sent to the printer.

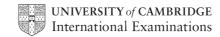
Carry out every instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do step by step. On the right hand side of the page for each task, you will find a box which you can tick (\checkmark) when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assignment put all your printouts into the Assessment Record Folder.

This document consists of 4 printed pages.



You are working at the Tawara Pleasure Ferry Company. You are going to analyse some of the company's data and produce reports.

1	Using a suitable software package, create a new database.			1.1.1		
2	Import the files A ARDA7PRC.CS		, ARI	DA7TRP.CSV an	d	1.2.1 1.2.2
	You will need to	use the following	info	rmation to create	the tables:	1.3.1 2.1.1
	₽ denotes prima	ary key				
	ARDA7BTS		7	ARDA7TRP		
•	Field Name	Туре		Field Name	Туре	
ß	FerryNo	Integer	حري	TripNo	Integer	
_	FerryName	Text	1	FerryNo	Integer	
ı	•		4	Date	Date	
				Season	Text	
				TimeOfDay	Text	
				Passengers	Integer	
				ARDA7PRC		
				Field Name	Туре	
			ß	Season	Text	
			ß	TimeOfDay	Text	
				Price	Number 2dp	
	Note that in the fields.	table ARDA7PF	RC th	Lne primary key is	made from two	
3	ARDA7BTS ARDA7PRO	C.Season 1	.∞ / -∞ /	Relationships: ARDA7TRP.Ferry ARDA7TRP.Seas ARDA7TRP.Time	on	2.1.2
4	Search for only t ferry Tawara Or	•	took	place during the	Winter on the	3.1.2 3.2.2
	You will need to information.	use the Season a	and <i>I</i>	FerryName fields	to find this	4.1.1 5.1.1
		-		ason, TimeofDay ascending order o		
	Print out this list.					
	Make sure that your name and today's date are printed.					

You are going to prepare a report which shows details of afternoon cruises on Tawara Orchid.

5	From all the records, select only the Afternoon cruises which were on Tawara Orchid	3.1.2
6	Prepare and print a grouped report which: has a report header Afternoon Cruises on Tawara Orchid groups the data by Season shows the Season as a group header has detail rows displaying Date, TimeOfDay, Price, Passengers 	4.1.1 4.1.2 4.1.3 5.1.1

 shows the total income for each season (sum of price multiplied by passengers for each cruise)

• displays your name and today's date at the end

Your report may look something like this:

Afternoon Cruises on Tawara Orchid

Autumn			Price	Passengers	
	10/01/2007 After	rnoon	99.99	999	
					99999.99
Spring			Price	Passengers	
	10/01/2007 After	rnoon	99.99	999	
	10/01/2007 After	rnoon	99.99	999	
	10/01/2007 After	rnoon	99.99	999	
					99999.99
Summer			Price	Passengers	
	10/01/2007 After	rnoon	99.99	999	
	10/01/2007 After	rnoon	99.99	999	
					99999.99
Winter			Price	Passengers	
	10/01/2007 After	rnoon	99.99	999	
	10/01/2007 After	rnoon	99.99	999	
	10/01/2007 After	rnoon	99.99	999	
					99999.99

John Smith 10 January 2007

You are now going to prepare a report which summarises some information about the number of passengers per season on each ferry.

		✓	
7	From all the records, select details of the trips on each ferry. Include only the fields <i>FerryName</i> , <i>Season</i> , <i>Passengers</i>		4.1.1
8	Using this data, create a cross-tab (pivot table) which shows <i>Ferry</i> as row labels and <i>Season</i> as column headings. Show the total number of passengers per ferry per season.		4.2.1
9	Add the title Summary – Trips per ferry , your name and today's date to the report and then print it.		5.1.1

Your report may look something like this:

Summary – Trips per ferry					
Ferry	Autumn	Spring	Summer	Winter	
Tawara Iris	9999	9999	9999	9999	
Tawara Lotus	9999	9999	9999	9999	
Tawara Orchid	9999	9999	9999	9999	
Tawara Rose	9999	9999	9999	9999	
Tawara Violet	9999	9999	9999	9999	

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