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Pearson Edexcel International GCSE

Time 3 hours

Paper reference **4IT1/0**

Information and Communication Technology (ICT)

PAPER 2: Practical Paper

You must have:
Cover sheet and short treasury tag.
Data files: SKIING, FACT SHEET, HOLIDAY, WEBSITE and IMAGES folder

Instructions

- Complete your candidate details on the cover sheet provided.
- At the end of the examination, use a treasury tag to attach your printouts to page 2 of the cover sheet.

Information

- There are **two** sections in this paper, with a total of **100** marks.
- The marks for each part of a task are shown in brackets: e.g. (2).

Advice

- Read through the instructions on page 2.
- Attempt **ALL** tasks.
- Label your printouts clearly as instructed in each task.
- Good luck with your examination.

Turn over ▶

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Instructions to candidates

This paper consists of two sections. Each section contains several tasks.

Work through the tasks in order.

You **MUST** enter the task number, your name, candidate number and centre number on each document **BEFORE PRINTING**.

You **MUST** submit your work in task order.

This table shows the major software used, the marks available and the data files needed for each section.

	Section	**Marks**	**Data files needed**
A	Graphics, database, web authoring	50	HOLIDAY, WEBSITE, IMAGES folder
B	Spreadsheet, word processing	50	SKIING, FACT SHEET
Total marks		**100**	

For each activity, you may also need to use other software.

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Scenario

Sam is the owner of *The Ski Run (TSR)*. The company offers skiing holidays in Europe.

These are the company's contact details.

Address:
The Terrace
Winterbourne
GR24 8GD

Telephone: 07700 900456

Website: www.theskirun.net

Email: sam@tsr.net

House style

The house style for company documents is:
- serif font for the company name
- logo position: top right.

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SECTION A

Task A1

Sam needs a logo to be used on some of the company's documents.

OPEN a new word processing document.

ENTER 'Task A1', your name, candidate number and centre number in the header.

SAVE the document as **TASK A1**

Task A1a

Create the logo.

The logo must be fit for purpose and:

- be a simple drawing that combines lines and shapes
- represent skiing
- include the company initials TSR.

(3)

SAVE the logo as **TSR LOGO**

INSERT a copy of the logo into the document **TASK A1**

DO NOT PRINT at this stage.

Task A1b

Sam wants to include the logo on an existing image.

He has an image saved as **MOUNTAIN SKIER** in the **IMAGES** folder.

Edit the image to:

- add the name of the company
- include the logo.

(2)

SAVE the image as **MOUNTAIN SKIER2** in the **IMAGES** folder.

INSERT a copy of the image into the document **TASK A1**

SAVE TASK A1

PRINT TASK A1 on **one** side of A4.

(Total for Task A1 = 5 marks)

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Task A2

Sam has collected information about guests and their ski holiday accommodation.

He has saved the information in the database **HOLIDAY**. The database has three tables.

The **HOTEL** table includes information about the types of accommodation offered.

The **GUEST** table includes information about guests who have booked holidays.

The **BOOKING** table includes information about bookings.

The structure of the **HOTEL** table is:

Field name	Data type	Description/Example
Hotel ID	Text	Code to identify the hotel
Hotel Name	Text	
Resort	Text	
Ski Pass	Yes/No	If a ski pass is included in the price
Price Range	Text	High, Medium or Low

The structure of the **GUEST** table is:

Field name	Data type	Description/Example
Guest ID	Text	Code to identify the guest
First Name	Text	
Surname	Text	
Email	Text	
Date of Birth	Date/Time	

The structure of the **BOOKING** table is:

Field name	Data type	Description/Example
Booking ID	Text	Code to identify the booking
Guest ID	Text	
Hotel ID	Text	
Arrival Date	Date/Time	Arrival date of holiday
Duration of Stay	Number	The number of nights the guest is staying

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OPEN a new word processing document.

SET the orientation to landscape.

ENTER 'Task A2', your name, candidate number and centre number in the header.

SAVE the document as **TASK A2**

Sam wants to use a form to add extra hotels to the **HOTEL** table.

OPEN the **HOLIDAY** database.

OPEN the **HOTEL** table.

Task A2a

Create a form for the **HOTEL** table.

The form must:

- match the house style
- include the logo you created in **Task A1a**
- include a suitable title
- be customised so the width of the:
  - Hotel ID field is 2cm
  - Hotel Name field is 6cm

(5)

SAVE the form as **HOTEL_FORM**

TAKE a screenshot of your form in design view showing the changes in field widths.

PASTE the screenshot into document **TASK A2**

RESAVE TASK A2

DO NOT PRINT at this stage.

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Task A2b

Another hotel must be added to the list of hotels offered.

Use the **HOTEL_FORM** you created in **Task A2a** to add these details to the **HOTEL** table:

Field Name	
Hotel ID	H201
Hotel Name	Keltischer Berg
Resort	Innsbruck
Ski Pass	Yes
Price Range	Medium

(2)

TAKE a screenshot of the completed form.

PASTE the screenshot into document **TASK A2**

RESAVE TASK A2

DO NOT PRINT at this stage.

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Task A2c

Sam wants a list of hotels that:

- are in Obergurgl
- are booked for 14 nights
- include a ski pass.

Create a query on the **HOTEL** and **BOOKING** tables to produce the list.

(2)

SAVE the query as **Obergurgl14Y**

TAKE a screenshot of the query design.

PASTE a copy of the query design into document **TASK A2**

RESAVE TASK A2

DO NOT PRINT at this stage.

The list must:

- show only these fields in this order **Hotel ID**, **Price Range** and **Hotel Name**
- be sorted in descending order of **Hotel ID**

(3)

DISPLAY the ordered and sorted results of the query.

TAKE a screenshot of the results.

PASTE a copy of the results into document **TASK A2**

RESAVE TASK A2

DO NOT PRINT at this stage.

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Task A2d

OPEN the **GUEST** table.

Sam wants a list of the guests who were born in 1990.

The list must:

- include the guests born in 1990
- show only these fields in this order **Email**, **First Name**, **Date of Birth**
- be sorted into ascending order of **Date of Birth**

Create a query on the **GUEST** table to find the information.

SAVE the query as **1990_query**

TAKE a screenshot of the query design.

PASTE a copy of the query design into document **TASK A2**

RESAVE TASK A2

DO NOT PRINT at this stage.

Sam wants to produce a database report based on the results from the **1990_query**

Create a database report to display the results.

The database report must:

- include the logo using the house style
- have a suitable title
- show only the required fields
- show the records sorted as required.

Enter your name, your candidate number and centre number in the page footer.

(6)

Make sure that all the data is displayed on **one** side of A4 and is easy to read.

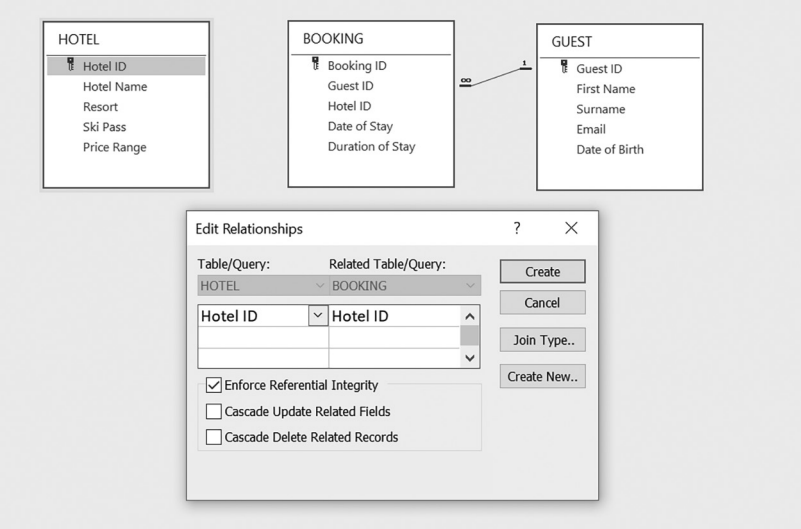
SAVE the report as **1990_report**

PRINT 1990_report

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Task A2e

This is the relationship for the **HOLIDAY** database.



Answer these questions in the document **Task A2**

(i) Identify the type of relationship that will be needed between the **HOTEL** table and the **BOOKING** table.

(1)

(ii) Explain **one** reason why referential integrity should be enforced for relationships in a database.

(2)

(iii) State the name of the table that would have its data entered last.

(1)

(iv) Explain **one** reason why ***Like "*haus*"*** would be used in a database search.

(2)

RESAVE TASK A2

PRINT TASK A2

(Total for Task A2 = 24 marks)

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BLANK PAGE

TASK A3 BEGINS ON THE NEXT PAGE.

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Task A3

OPEN a new word processing document.

ENTER 'Task A3', your name, candidate number and centre number in the header.

SAVE the document as **TASK A3**

Sam wants you to create two web pages for the TSR website. Content for the web pages is stored in the file **WEBSITE**

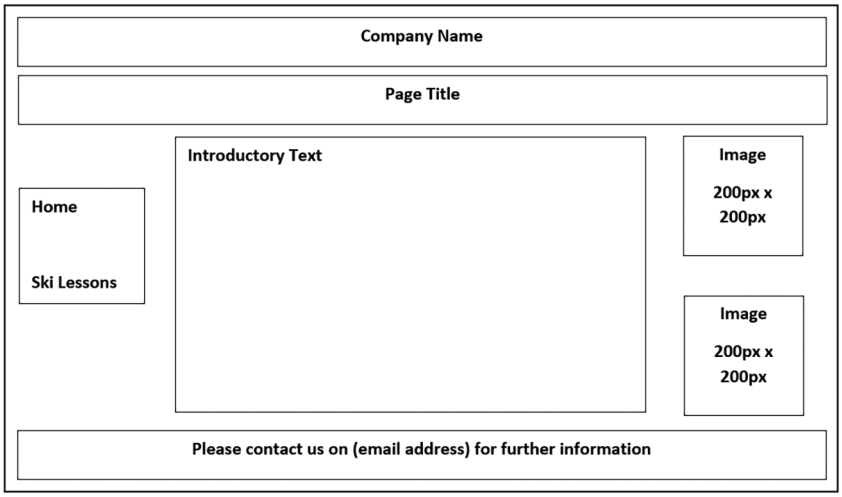
He wants you to create these two linked pages:

- Home
- Ski Lessons

Both web pages MUST be saved as .html

Task A3a

(i) Create the home page based on this design:



Use these HTML elements:

- Company Name – <h1>
- Page Title – <h2> and underline <u>
- Introductory Text – paragraph <p>

Use the following colour scheme:

- background colour – Blue Gray (#98AFC7)
- text colour for Introductory Text – White (#FFFFFF)

Include **two** appropriate images from the **IMAGES** folder and position them as shown in the design. **One** of the images must link to www.theskirun.net

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Include the appropriate content from the **WEBSITE** document.

Include Sam's name and the email address (sam@tsr.net). Make the email add an email link.

(

SAVE the home page as **INDEX**

TAKE a screenshot of your home page in a web browser.

PASTE your screenshot into document **TASK A3**

TAKE screenshots of the code to show:
- <h1>, <h2>, <p> and <u> HTML elements
- Blue Gray and White colours
- email and image links
- size of images.

PASTE your screenshots into document **TASK A3**

RESAVE TASK A3

DO NOT PRINT at this stage.

(ii) Create the Ski Lessons page by resaving the home page as **SKI LESSONS**

Make the following changes to **SKI LESSONS**:

- page title – **Ski Lessons**
- delete the introductory text
- create an HTML table:
  - include the information from the **WEBSITE** document
  - add a 1px border.

(4)

(iii) Create links between the two pages.

(1)

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SAVE the Ski Lessons page as **SKI LESSONS**

RESAVE the home page as **INDEX**

TAKE a screenshot of your Ski Lessons page in a web browser.

PASTE the screenshot in document **TASK A3**

TAKE screenshots of the code to show:
- HTML table
- page links.

PASTE the screenshots in document **TASK A3**

RESAVE TASK A3

DO NOT PRINT at this stage.

Task A3b

Sam wants you to make these changes to the HTML code for the home page:

- text colour for Introductory Text – Indigo (#4B0082)
- right align the contact details.

(2)

RESAVE INDEX

TAKE screenshots of the changes made to the HTML code. Do not screenshot all the code, just the code to show the changes.

PASTE the screenshots in document **TASK A3**

RESAVE TASK A3

DO NOT PRINT at this stage.

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Task A3c

This code was used in a previous website.

<img src=slalom.jpg alt="Image of skier">

Answer these questions in the document **TASK A3**

(i) State **one** reason why the code will not display the image.

(1)

(ii) Explain **one** reason why alt text has been used on the image.

(2)

(iii) Give **one** advantage of using a template when setting up web pages.

(1)

RESAVE TASK A3

PRINT TASK A3

(Total for Task A3 = 21 marks)

TOTAL FOR SECTION A = 50 MARKS

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SECTION B

Task B1

The Ski Run offers holidays in Europe.

The spreadsheet **SKIING** contains information on ski equipment and ski slopes.

It has two worksheets called **MEMBERS** and **DETAILS**. Some functions require you to use both worksheets.

OPEN the spreadsheet **SKIING**

OPEN the worksheet **MEMBERS**

ENTER 'Task B1', your name, candidate number and centre number in the header.

Task B1a

(i) Insert a new row at the top of the spreadsheet and enter the heading 'Ski Information 2021'

(1)

(ii) Merge and centre cells A1 to E1

(1)

(iii) Set the formatting of the heading to:

- font size - 24
- font style – serif
- font enhancement – bold.

(1)

(iv) Insert in the header:

- the text 'Completed:'
- an automated date.

(1)

(v) Insert a blank row between the heading and the first row of information.

Format this row to be approximately half the height of the other rows.

(1)

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Task B1b

Sam wants you to use spreadsheet tools to analyse the data for the information inclu

(i) Use **one** spreadsheet function to:

- display the cost of Equipment Hire

(4)

(ii) Use **one** spreadsheet function to:

- display the cost of the Ski Pass that includes a 20% discount if the cost of the Equipment Hire is more than 300€

(3)

(iii) Enter a formula to calculate the:

- total cost of the Equipment Hire and the Ski Pass

(1)

(iv) Replicate all functions and formula for all members.

(1)

(v) Use **one** spreadsheet function to:

- display the total cost of Equipment Hire

(1)

Task B1c

Format the **MEMBERS** worksheet so that:

- currency values show the currency symbol (€) with no decimal places

(1)

- headings are wrapped to use the space efficiently

(1)

- all data is visible

(1)

- the row and column headings and the page header are displayed when printed.

(1)

SAVE the spreadsheet as **Task B1**

PRINT the **MEMBERS** worksheet in landscape showing the VALUES on **one** side of A4.

DISPLAY formulae view and ensure all FUNCTIONS and FORMULAE are displayed without truncation and will print on no more than **two** sides of A4.

PRINT the **MEMBERS** worksheet in landscape showing the FUNCTIONS and FORMULAE.

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Task B1d

OPEN the worksheet **DETAILS**

ENTER 'Task B1', your name, candidate number and centre number in the header.

(i) Enter a formula to calculate:

- the percentage length of each ski run type.

(1)

(ii) Use **one** spreadsheet function to calculate:

- the average length of all the ski runs.

(1)

RESAVE the spreadsheet as **Task B1**

PRINT the **DETAILS** worksheet in landscape showing the VALUES on **one** side of A4.

DISPLAY formulae view and ensure all FUNCTIONS and FORMULAE are displayed without truncation and print on no more than **two** sides of A4.

PRINT the **DETAILS** worksheet in landscape showing the FUNCTIONS and FORMULAE.

(Total for Task B1 = 21 marks)

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Task B2

Sam wants to know the number of members who are at Level 3.

Task B2

(i) Filter the **MEMBERS** worksheet to show only the Level 3 members.

(1)

(ii) Display only the data for the Member Name and Total Cost columns.

(1)

SAVE the spreadsheet as **Task B2**

PRINT the **MEMBERS** worksheet showing the VALUES.

(Total for Task B2 = 2 marks)

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Task B3

OPEN a new word processing document.

ENTER 'Task B3', your name, candidate number and centre number in the header.

SAVE the document as **TASK B3**

Task B3a

Sam wants you to create a chart to display the percentage of ski run lengths from the **DETAILS** worksheet.

The chart must include:

- a suitable title
- labels showing the % values
- appropriate series names.

(3)

SAVE the spreadsheet as **CHART**

COPY the chart or **TAKE** a screenshot of the chart.

PASTE the chart into document **TASK B3**. Make sure that the chart is easy to read.

DO NOT PRINT at this stage.

Task B3b

Use the **MEMBERS** worksheet to display only the data for Member Name, Member Type and Ski Pass cost.

(1)

SAVE the spreadsheet as **TASK B3b**

TAKE a screenshot of the spreadsheet including column letters.

PASTE the screenshot into document **TASK B3**

DO NOT PRINT at this stage.

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Task B3c

Answer these questions in document **TASK B3**

(i) Sam has a worksheet showing the star ratings of the hotels the members will be staying in.

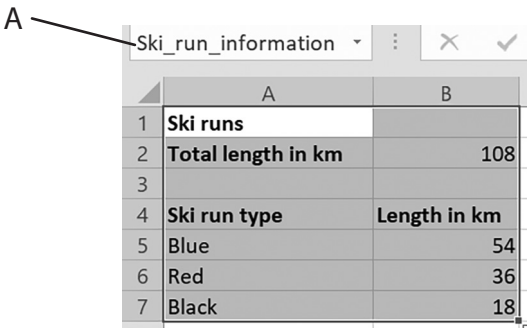
	A	B
1	**Hotel Star Ratings**	
2	**Hotel Name**	**Star Rating**
3	Das Konservatorium	5
4	Haus Montain	3
5	Alpen Haus	3
6	Keltisch Resort	5
7	Hotel Flussfer	4
8	Haus Wald	4
9	Hotel Ski	5
10	Hotel mit grünem Blick	5
11	Skigebiet	4
12	Die Hütte	3
13	Haus Sloeden	5
14	Gurgl ski resort	3
15		=COUNTIF(B3:B14,B7)

The function =COUNTIF(B3:B14,B7) has been used in cell B15.

Describe how this function works with this data.

(3)

(ii) State the feature labelled A.



	A	B
1	**Ski runs**	
2	**Total length in km**	108
3		
4	**Ski run type**	**Length in km**
5	Blue	54
6	Red	36
7	Black	18

(1)

SAVE TASK B3

PRINT TASK B3

(Total for Task B3 = 8 marks)

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Task B4

OPEN a new word processing document.

ENTER 'Task B4a', your name, candidate number and centre number in the header.

SAVE the document as **TASK B4a**

Sam wants you to create a fact sheet to show the prices of ski lessons.

Use the **FACT SHEET** document for this task.

Task B4a

Create the fact sheet.

The fact sheet must follow the design shown on the **FACT SHEET** document.

The fact sheet must fit on **one** side of A4 and include the:

- heading
- information
- table.

(13)

RESAVE TASK B4a

PRINT TASK B4a

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Task B4b

OPEN a new word processing document.

ENTER 'Task B4b', your name, candidate number and centre number in the header.

SAVE the document as **TASK B4b**

Answer these questions on the document **TASK B4b**

(i) Explain **one** improvement you would make to the table.

(2)

(ii) Explain **one** reason why 'Save As' is used, rather than 'Save', when saving a file.

(2)

(iii) Spelling and grammar tools have been used to check some text.

Explain **one** reason why proofreading is still required.

(2)

RESAVE TASK B4b

PRINT TASK B4b

(Total for Task B4 = 19 marks)

TOTAL FOR SECTION B = 50 MARKS
TOTAL FOR PAPER = 100 MARKS

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