

Pearson Edexcel International Advanced Level

Tuesday 10 June 2025

Afternoon (Time: 3 hours)

Paper
reference

WIT14/01

Information Technology

International Advanced Level

UNIT 4

You must have:

The files Classes.xlsx, Studio Fitness.accdb, Candidate evidence template.docx

Instructions

- Answer **all** questions using the template provided.
- Paste your screen prints into the appropriate places in the template.
- Type your responses to Question 1(b) and Question 5 in the appropriate places in the template.

Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Instructions

A template for your evidence is provided in your examination area.

Open the template and type in your centre name, centre number, candidate name and candidate number in the boxes provided.

You must save the template using a filename in this format:

Centre number_candidate number_surname_first letter of first name

For example, 12345_9212_Smith_J

The screen prints you produce must be copied into the appropriate places in your template.

After you add a screen print to your template check that all the text can be read and enlarge the image, if necessary.

Remember to save your template regularly.

Responses to Question 1(b) and Question 5 must be typed in the appropriate places in your template.



Scenario

Julio owns Studio Fitness.

Studio Fitness runs fitness classes.

There are a number of classes each day. For example, on a Monday there are three classes.

Each class is supervised by a trainer.

Each class is for an activity. For example, Bounce Dance Extreme.

Activities are not repeated on the same day.

Each class starts at the same time every week.

Julio keeps a list of activities in a single table within the database **Studio Fitness**.

He has provided the **Classes** spreadsheet file, which contains records of the classes.

Julio is finding it increasingly difficult to keep track of the:

- classes that run each day
- trainer who is supervising each class.

He wants a solution that will allow him to manage the system more effectively.

The screen prints you produce must be copied into the appropriate places in your template. Remember to save your template regularly.

Responses to Question 1(b) and Question 5 must be typed in the appropriate places in your template.

The studio fitness database and the classes spreadsheet file are provided in your examination area.

Study these files carefully.

1 (a) The activity table in the studio fitness database needs to be improved.

One of the data types is incorrect.

Identify and correct the error.

Screenprint the table in **Design** view, making sure that the data type you have changed can be clearly seen.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(1)

(b) Each field in the activity table needs to have suitable validation checks and test data to ensure that any data added meets the requirements.

The requirements are:

- the activity ID must be three uppercase letters
- the activity title must not be left blank
- the minimum activity duration is 45 minutes
- the maximum activity duration is 60 minutes
- the maximum number of people for an activity ranges from 15 to 25 inclusive.

Analyse the requirements and the sample data in the activity table.

Recommend, with reasons, suitable validation tests with suggested test data to prove that **only** valid data would be accepted.

NOTE more than one example of test data may be needed for a field.

Type your response in the appropriate place in your template.

Do not amend the structure of the activity table.

Re-save your template.

(9)

(c) Julio needs a form to enter data about a new activity.

The form must:

- open ready for data entry
- allow the input of information about the new activity:
 - activity ID
 - activity title
 - activity description
 - activity duration
 - activity max number
- allow the user to select the activity level from a combo box
- provide a button that:
 - saves the record in the table
 - displays a message to say that the record has been saved
 - clears the form ready for the input of the next new activity.

Create a user-friendly data entry form for the activity table that will allow Julio to add new records to the database.

Screenprint your form in **Form** view.

Paste the screen print into the appropriate place in your template.

Produce screen prints in **Design** view to show any macros, code, queries and/or properties you have used. Ensure that all fields and details can be clearly seen.

Paste the screen prints into the appropriate place in your template.

Re-save your template.

(10)

(d) The classes spreadsheet file is in your examination area.

It contains some records from a spreadsheet that Julio uses to keep track of the classes offered each week.

He wants to extend the studio fitness database to add this functionality.

Develop the studio fitness database to do this.

You must create an efficient data structure that minimises data duplication, uses correct data types and primary keys, and enforces referential integrity.

Produce a screen print that clearly shows the relationships including table names, field names, and primary keys.

Paste the screen print into the appropriate place in your template.

Produce screen prints showing the field names and data types in the tables **you** have created.

Paste the screen prints into the appropriate places in your template.

Re-save your template.

(11)

(e) Import the data from the classes spreadsheet file into the studio fitness database.

Produce screen prints of **your** tables showing at least five records and the full record count. (If the fields are too wide to fit on one page, truncated data is allowed.)

Paste the screen prints into the appropriate places in your template.

Re-save your template.

(3)

(Total for Question 1 = 34 marks)

2 (a) Julio wants to know details of the Wednesday evening classes.

Create a query that:

- finds details of the classes:
 - for Wednesday
 - later than 17:00 hours
 - with an activity duration of at least 45 minutes.
- displays, in order of activity duration, lowest to highest:
 - day
 - start time
 - activity title
 - activity duration.

Screenprint your query in **Design** view, making sure that all required tables, fields and criteria can be clearly seen.

Paste the screen print into the appropriate place in your template.

Screenprint your query in **Datasheet** view, making sure that the contents of all fields can be clearly seen.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(6)

(b) (i) Julio would like to know more about the advanced level activities for each day.

For each day he wants to know the:

- number of advanced level activities that take place
- earliest advanced level activity start time
- latest advanced level activity start time.

Create a query that will extract and use appropriate data from the database.

Screenprint your query in **Design** view, making sure that all required tables, fields and criteria can be clearly seen.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(5)

(ii) Julio wants a report based on the query you created in Question 2(b)(i).

He wants it to:

- include a suitable title
- be grouped by the day ID.

For each day ID he wants the report to display:

- the name of the day
- the number of advanced level activities
- the earliest activity start time
- the latest activity start time.

He also wants the report to display the overall number of advanced level activities.

Create the report.

Screenprint your report in **Design** view.

Paste the screen print into the appropriate place in your template.

Screenprint your report in **Print Preview** view.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(11)

(Total for Question 2 = 22 marks)

3 (a) Julio needs to know the activities that run fewer than five times each week.

Create a query that will do this.

The query should display the activity title and the number of times each activity is run per week.

Screenprint your query in **Design** view, making sure that all required tables, fields and criteria can be clearly seen.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(4)

(b) Julio would like the information in chart format to make it easier to understand.

The chart needs to show the activity title and number of times each activity is run each week.

Use the query you created in Question 3(a) to extract the data for the chart.

Create a report that displays this information as a chart.

Display your report in **Design** view.

Ensure the chart is visible on your screen.

Screenprint the entire window.

Paste the screen print of the entire window into the appropriate place in the template.

Screenprint your report in **Print Preview** view.

Paste the screen print into the appropriate place in your template.

Re-save your template.

(6)

(Total for Question 3 = 10 marks)

4 Julio needs a dashboard for the database.

It must provide buttons that will allow him to:

- print the activity table
- open the report you created in Question 3(b) in **Print Preview**
- open and print the query you created in Question 2(a)
- exit the database.

Create the dashboard to meet these requirements.

Screenprint the dashboard in **Form** view.

Paste the screen print into the appropriate place in the template.

Produce screen prints in **Design** view to show any macros or code you have used.
Ensure that all details can be clearly seen.

Paste the screen prints into the appropriate place in your template.

Re-save your template.

(Total for Question 4 = 5 marks)

5 Julio wants to record the details of members who join Studio Fitness and keep a record of the classes they attend.

Analyse why your database structure may not allow Julio to record the details of members who join Studio Fitness and the classes they attend.

Recommend how your database structure could be modified to allow details of members who join Studio Fitness and the classes they attend to be recorded.

Type your response in the appropriate place in your template.

Re-save your template.

(Total for Question 5 = 9 marks)

TOTAL FOR PAPER = 80 MARKS



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