

Task 3 – Database

You are now going to prepare some reports based on assessment results. Dates are to be imported in the format of day month year.

- 17 Using a suitable database package, import the file **N2102TRAINEE.csv**

Use these field names and data types:

Field name	Data type	Format
Family_Name	Text	
First_Name	Text	
Trainee_No	Text	
Birth_Date	Date/Time	DMY
Gender	Text	
Trainee_Job	Text	
Training_Provider	Text	

Set the *Trainee_No* field as a primary key.

Save the data.

EVIDENCE 4

Place in your Evidence Document a screenshot showing the primary key, field names and data types used in the table.

Import the file **N2102RESULTS.csv** as a new table in your database.

Use these field names and data types:

Field name	Data type	Format
Test_Date	Date/Time	DMY to display as dd-MMM-yy e.g. 12-May-21
Test_Day	Text	
Start_Time	Date/Time	to display as hh:mm
Subject	Text	
Test_Version	Number	
Student_ID	Text	
Duration	Date/Time	to display as hh:mm
Mark_Achieved	Number	
Total_Marks	Number	
Pass_Mark	Number	
Test_Type	Text	
Result	Text	

Do not set a primary key.

Save the data.

EVIDENCE 5

Place in your Evidence Document a screenshot showing the field names and data types used in the table.

[5]

- 18 Create a one-to-many relationship between *Trainee_No* in the trainee table and *Student_ID* in the results table.

EVIDENCE 6

Place in your Evidence Document screenshot(s) showing the type of relationship between the two tables.

[1]

19 Enter the following details as a new record in the trainee table:

Family_Name	Schneider
First_Name	Lina
Trainee_No	CA0096
Birth_Date	19/08/2003
Gender	Female
Trainee_Job	Software Developer
Training_Provider	Tawara Digital Academy

Check your data entry for errors.

Save the data.

[2]

20 Using fields from the trainee table **only**, produce a tabular report that:

- selects the records where:
 - Training_Provider includes the text **digital**
 - Birth_Date is in **2003**
- shows only the following fields:
 - First_Name, Family_Name, Birth_Date, Trainee_Job and Training_Provider
- in this order, with data and labels displayed in full. Do **not** group the data
- sorts the data into ascending order of Training_Provider
- has a page orientation of portrait
- fits on a single page
- includes only the text **Digital Work Programmes** as a title displayed in a larger font size, fully visible, at the top of the page
- has your name, centre number and candidate number on the report.

Save and print your report.

PRINTOUT 2

Make sure that you have entered your **name**, **centre number** and **candidate number** on your report.

[7]

21 Using fields from both tables, produce a tabular report that:

- contains a new field called **% Mark** which is calculated at run-time. This field will calculate the *Mark_Achieved* divided by *Total_Marks* and be displayed as a percentage with 0 decimal places.
- selects the records where:
 - Test_Day is **Saturday** or **Sunday**
 - Mark_Achieved is **25 or more**
- shows only the following fields:
 - First_Name, Family_Name, Subject, Test_Date, Test_Day, Start_Time, Mark_Achieved, %_Mark and Result
- in this order, with data and labels displayed in full. Do **not** group the data
- sorts the data into ascending order of Test_Day and descending order of Subject
- has a page orientation of landscape
- fits on a single page wide
- includes only the text **Weekend Testing** as a title displayed in a larger font size, fully visible at the top of the page
- calculates the number of tests and displays this as an integer below the Subject column at the end of the report
- has a label **Total tests completed** to the left of this value
- displays only your name, centre number and candidate number in the footer so it appears in the same position on every page. Make sure no other data is displayed in the footer.

Save and print your report.

PRINTOUT 3

Make sure that you have entered your **name**, **centre number** and **candidate number** on your report.

EVIDENCE 7

Place in your Evidence Document a screenshot showing the database formula used to calculate the number of tests.

[15]

[Total: 30]