Name:
IAL IT Topic 5 Examiner's Report
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Date:
Time:
Total marks available:
Total marks achieved:

This was a short practical question. The candidates were asked to write a Structured Query Language (SQL) query.

The database needed was that given in the previous question. The table headings shown were those to be used in writing the query, but understandable variations were accepted.

SQL queries have a set structure and syntax, but this varies according to the version of SQL and the database being used. Marks were awarded as long as the query was understandable.

A customer brings in a photograph of a plant she wants to buy.

She says that the plant has white flowers and is at least two metres tall.

The garden centre identifies the plant as a type of mimosa.

Write an SQL query that:

- · finds all the mimosa plants that meet the criteria
- displays the official name of each plant, and the names and telephone numbers of the suppliers, if any, who stock that plant
- orders the list alphabetically by supplier name.

 SELECT official Name, supplier Name, telephone Number FROM the supplier, the plant WHERE hight > 2 AND flower Colour = White AND official Name & Miles AND official Name & Miles

Results Plus: Examiner Comments

The answer notes everything except mark point 6, the join between the two tables.

The answer is not well-structured, because each word written in capitals should have started a new line. It is, however, understandable.

Total: 6 Marks

SELECT OFFI	cialNare, SupplierNare, telephoneNumber
FROM +61-S	applier, to1-plant
WHERE &	common "mimas" Attotal Name = "mimas"
	reight>= 2
AND f	-lower Colour = "white"
AND +6	- Supplier. Supplier 10 = +61-plant. Supplier 10
ORDER BY M	ev;

Results Plus: Examiner Comments

This response accesses mark points 1 and 2, having only the correct fields from the correct tables.

It does not receive mark point 3, because the candidate has crossed out the correct answer and replaced it with something else. If it had not been replaced, the crossed-out work would still have been valid.

The response does not have any form of 'wildcard' for mark point 4, but does have an AND condition for mark point 5.

Mark point 6 is for the join shown on the next to bottom line.

Mark point 7 is not given as the ORDER needs to be by supplierName. Name by itself is not accepted as it could apply to commonName or officialName as well as supplierName.

Total: 4 Marks

- Q2. No Examiner's Report available for this question
- Q3. No Examiner's Report available for this question

04.

- (i) involved writing an SQL query and was not attempted by about half of the candidates. Those who did attempt the task usually picked up several marks.
- (ii) should have produced a straightforward answer about the benefits of access to a specialised

database in the context of the question. Large numbers of candidates ignored all context an	d
answered in terms of benefits of using a database to store/search for information.	

- Q5. No Examiner's Report available for this question
- Q6. No Examiner's Report available for this question

Q7.

This is a short practical question, about an entity relationship diagram.

This is worth six marks.

The mark scheme contains six items.

Candidates do not need to produce a fully complete diagram to get full marks. The first three items in the mark scheme only require three of the four possible lines/relationships/primary keys.

This approach was taken as was felt that the candidates have a lot to do in a limited time and three would be sufficient for them to show that they understood relationships and keys.

Q8.

- (i) Sub-questions i iv were based on a database used by a garden centre. Two tables, with sample data were provided. Candidates were asked to give keys and data types being used in the database.
- (i) asked for a primary key. The only possible answers were Supplier ID or Product ID. Minor spelling errors or misuse of capitals were ignored.
- (ii) Sub-questions i iv were based on a database used by a garden centre. Two tables, with sample data were provided. Candidates were asked to give keys and data types being used in the database.
- (ii) asks for a foreign key. The only possible answer was Supplier ID. Minor spelling errors or misuse of capitals were ignored.
- (iii) Sub-questions i iv were based on a database used by a garden centre. Two tables, with sample data were provided. Candidates were asked to give keys and data types being used in the database.
- (iii) asked for the data type being used for 'height'. The only possible answers were Float,

Double, Decimal, or Real. Minor spelling errors were ignored.

- (iv) Sub-questions i iv were based on a database used by a garden centre. Two tables, with sample data were provided. Candidates were asked to give keys and data types being used in the database.
- (iv) asked for the data type being used for 'telephoneNumber'. The only possible answers were Text, String or Varchar. Minor spelling errors were ignored.

Q9.

This is an extended writing question in the form of a short essay concerning structured and unstructured data in the context of a garden centre. The mark scheme is levels-based.

Many of the less-able candidates did not know what the terms 'unstructured' and 'structured' data meant. Instead, they wrote about them as if they were data and information. Marks could still be gained if the examples they used fitted the terms, but they were unlikely to get more than a Level 1 mark.

A garden centre stores information about its plants and customers.

information withour content

The garden centre collects and stores both structured and unstructured data.

Explain the difference between structured and unstructured data.

Where possible, support your explanation using examples of structured and unstructured data that the garden centre might use.

(6)

Unstructured data is such data that his not peer given a
context. Wheneve structured lets is data that his been given
context and now i information that can be used for example for
descision metry
Corden centre may have data of forexemple; red, green, green,
yellow, red, violet. This is upstructured data as it were how not
been given a context However, once the centext of flower is given
this becomes structured late which i information of how many
flower there are of each volour, this has now become dath that
us he well and help the graden only to been up to fathe
with their stack, for example if they were to receive the
new red flower there are no red flower left, they un exit order new red flower that information, rether than relying on manually
new red flower twing that information, rether than relying on manually
noticing that they have van out of red flawers

Results Plus: Examiner Comments

The candidate writes about data and information, instead of unstructured/structured data.

Some marks are awarded for appropriate examples of unstructured and structured data.

Total: 2 Marks

A garden centre stores information about its plants and customers.

The garden centre collects and stores both structured and unstructured data.

Explain the difference between structured and unstructured data.

Where possible, support your explanation using examples of structured and unstructured data that the garden centre might use.

structured let a is obta gorsesented in
structured let a is data replesented in a uniform formet it con also be referred to be as deta that limited to be within a set of
to as deta that linited to be within a set of
ules Unstructured deta is data whose formet
•
many limits and is adjundent of Dem
many limits and is idependent of Dem.
Scionally, Structured data as be reformed
to as data that is quantitative which means it is or can be expressed
means it is or can be explised
in numbers. Unstructured data is questative
data, it is in most leses text and an
also be thought of as being opinion based.
I an example of ornitived date that
The shop can so is the product IO
of De flower, Re amount advers ordered and
To to tal wet Each of Dese has Deig own
fornot An example of instructured data,
is customer neviews, this is feed out
and is influenced by the customores
opinion and explaience and so is not likely
To be restricted to a estam format. Therefore, generally structions
deta holds importent information whereas most nutured deta does not.

Results Plus: Examiner Comments

The answer is difficult to read but worth doing so because it is clear and has good discussion.

It covers structured and unstructured data and includes examples for both.

A garden centre stores information about its plants and customers.

The garden centre collects and stores both structured and unstructured data.

Explain the difference between structured and unstructured data.

Where possible, support your explanation using examples of structured and unstructured data that the garden centre might use.

(6)

Structed data is formatted organized

quantitative data while anstructed
data is qualitative unformatted and

unorganized. The centre may store its

Biructed data in a relational databose

such as plant stock remaining for different
different types of The plants They'

Their product Eb's can be stored in a

ordexly manner. This is structured data

Unotructed data in this case can be customed

comments and reviews. They have no format

or order just qualitative dat data stored

in the system.

Results Plus: Examiner Comments

The answer covers structured and unstructured data and gives appropriate examples of each.

It is a little too brief and lacking in detail to access Level 3. This is a good Level 2 answer.

Total:4 Marks

Q11.

This is a short essay question about the suitability of a relational database for handling structured data.

This is worth six marks.

The indicative content in the mark scheme includes a range of possible approaches. Good answers do not need to include all of them.

The level three descriptor requires 'accurate and relevant knowledge, and a balanced and fully developed discussion'. Balance can be shown by writing about two or more areas of the indicative content.

Relevancy is likely to be automatic, as long as the candidate is writing about a relational database. The descriptors for short essay, discuss questions are always the same and, in this case, the 'balanced' and 'accurate' parts would be weighted more heavily than the 'relevant' part.

Weaker answers are likely be about how the database described might be used, rather than addressing the more general question about handling structured data.

Q12.

This is a short practical question, about an entity relationship diagram.

This is worth six marks.

The mark scheme contains six items.

The last marking point requires a complete diagram with no extra attributes or relationships or incorrect keys. Incorrect relationship types are allowed

The first two items in the mark scheme only require one correct relationship and type.

Q13. No Examiner's Report available for this question