MODULE N DATABASES AND SQL · N4

SQL: SELECT, FROM and WHERE

Original practice questions · 20 marks · ~25 minutes · Cambridge 0478 syllabus 9.4

Name _____ Date _____

Instructions. Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **20 marks**. All questions use the database table TREES shown in Question 1. All data on this sheet is made up.

1

Total: 3 marks

A community orchard keeps a single-table database of its fruit trees. Part of the table TREES is shown. HeightM is the height of the tree in metres and Planted is the year the tree was planted.

TreeID	Variety	Planted	HeightM	Section
T01	Apple	2015	4.2	A
T02	Pear	2019	2.8	B
T03	Plum	2012	5.1	C
T04	Apple	2021	1.9	B
T05	Cherry	2016	3.6	A
T06	Pear	2014	4.8	C
T07	Plum	2020	2.4	B
T08	Apple	2017	3.5	C

Look at this SQL statement.

```
SELECT Variety, Section
FROM TREES
WHERE Planted > 2018;
```

Describe what each line of this statement does when it is run on the table TREES. **[3]**

Line	What it does
`SELECT Variety, Section`	
`FROM TREES`	
`WHERE Planted > 2018`	

2 **Total: 4 marks**

(a) Write the output from this SQL statement. **[3]**

```
SELECT TreeID, Variety
FROM TREES
WHERE HeightM > 4.0;
```

(b) State the number of records that this SQL statement would display. **[1]**

```
SELECT *
FROM TREES
WHERE Section = 'C';
```

3 **Total: 3 marks**

Complete this SQL statement to display only the tree ID and the year planted of all the trees in section B. **[3]**

SELECT .....

FROM .....

WHERE ..... **;**

4 **Total: 3 marks**

Write an SQL statement to display only the variety and height of all the trees planted before 2016. **[3]**

5 **Total: 5 marks**

This SQL statement should display the tree ID and height of all the plum trees. It contains **three** errors.

```
01 SELECT TreeID HeightM
02 FROM TREE
03 WHERE Variety = Plum;
```

(a) Identify the line number of each error and write the corrected line. **[3]**

Error 1 Line number ..... Correction

Error 2 Line number ..... Correction

Error 3 Line number ..... Correction

(b) Write the output from the corrected SQL statement. **[2]**

6 **Total: 2 marks**

Write an SQL statement to display **all** the fields for the tree with the tree ID T05. **[2]**

Total for this worksheet: 20 marks