MODULE N DATABASES AND SQL · N4

SQL: SELECT, FROM and WHERE

Original practice questions · 20 marks · ~25 minutes · OCR J277 spec 2.2.3

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**. Questions 2 to 5 use the table in **Fig. 1**. All data on this sheet is made up.

1

Total: 4 marks

SQL is used to search for data in a database.

(a) Tick (✓) **one** box in each row to show which SQL command does each job. **[3]**

Job	SELECT	FROM	WHERE
Gives the condition that a record must meet to be included in the results			
Lists the fields to be shown in the results			
Names the table that the data is searched in			

(b) State what the * means in the SQL statement `SELECT * FROM TblStaff` **[1]**

2

Total: 4 marks

A bike hire company stores details of its bikes in a database table called `TblBikes`. Part of the table is shown in **Fig. 1**.

Fig. 1

BikeID	Type	FrameSize	Gears	Location
B01	Road	54	18	Station
B02	Mountain	48	21	Park
B03	Electric	52	7	Harbour
B04	Road	58	22	Harbour
B05	Mountain	52	24	Station
B06	Electric	56	8	Park
B07	Road	50	16	Park

This SQL statement is run on the table in Fig. 1.

```
SELECT BikeID, Location
FROM TblBikes
WHERE Gears > 20
```

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

(b) The last line of the statement is changed to `WHERE Gears >= 22` **[1]**
Identify the `BikeID` of the **one** bike that would no longer be in the output.

3

Total: 3 marks

Complete the SQL statement to show the `BikeID`, `Type` and `FrameSize` of every bike kept at the Park. **[3]**

SELECT .....

FROM .....

WHERE .....

4 **Total: 5 marks**

A customer needs a bike with a frame size smaller than 52.

(a) Write an SQL statement to show the `Type` and `Gears` of every bike in `TblBikes` with a `FrameSize` less than 52. **[3]**

(b) Give the output that a correct statement for part (a) would produce from the data in Fig. 1. **[2]**

5 **Total: 4 marks**

A member of staff wants to show the `BikeID` and `Location` of every electric bike. They write this SQL statement, which contains **one** error.

```
01 SELECT BikeID, Location
02 WHERE Type = "Electric"
03 FROM TblBikes
```

(a) Identify the error in the SQL statement. **[1]**

(b) Refine the SQL statement so that it is correct. **[1]**

(c) Give the output from the corrected statement using the data in Fig. 1. **[2]**

Total for this worksheet: 20 marks