MODULE N DATABASES AND SQL · N4

SQL: SELECT, FROM and WHERE: mark scheme

20 marks · OCR J277 spec 2.2.3 (the use of SQL to search for data; SQL commands SELECT, FROM, WHERE)

How to use. 1 mark per bullet up to the Max shown. **/** separates alternative answers. Words in (brackets) are not needed for the mark. SQL is marked for logic, not exact layout: ignore capitals in keywords and names, and allow a statement written on one line. Field and table names must be spelt as in Fig. 1, with no added spaces (e.g. `Frame Size` or `TblBike` is not credited; penalise once then follow through). Accept text values in double or single quotes (`"Park"` / `'Park'`). Accept == for = in a WHERE condition. Ignore a final semicolon. Accept output with or without field headings, and with any separator between values (spaces, commas, a table). Credit any other valid answer that shows the same understanding.

QUESTION	ANSWER	MARKS	GUIDANCE
1(a) J277 2.2.3	1 mark per correct row: • Gives the condition that a record must meet: `WHERE` • Lists the fields to be shown: `SELECT` • Names the table searched: `FROM`	**3**	More than one tick in a row: 0 for that row.
1(b) J277 2.2.3	All (of the) fields (are shown) / every field in the table / all the columns	**1**	Accept "everything in each record". Do not accept "all the records" / "all the rows" (records are chosen by WHERE, not by *). "All the data" alone: do not credit (it does not say fields). Do not accept "multiply".
2(a) J277 2.2.3	1 mark per correct record (BikeID **and** Location): • `B02 Park` • `B04 Harbour` • `B05 Station`	**3**	Bikes with more than 20 gears have 21, 22 and 24 gears. Any extra record (e.g. B01) or any extra field (e.g. Gears or Type shown): max 2. Ignore the order of the records. BikeIDs only, or locations only: max 1.
2(b) J277 2.2.3	`B02`	**1**	B02 has exactly 21 gears, which is not >= 22. Correct answer only.

QUESTION	ANSWER	MARKS	GUIDANCE
3 J277 2.2.3	1 mark each: • `SELECT BikeID, Type, FrameSize` • `FROM TblBikes` • `WHERE Location = "Park"`	**3**	First mark: all three fields, separated by commas, in any order. Do not accept `SELECT *` (only three fields were asked for), `AND` between the fields, or a missing field. Third mark: `Park` must be in quotes; do not accept `IF` in place of `WHERE`.

4(a)
J277 2.2.3
	1 mark each:
	• `SELECT Type, Gears`
	• `FROM TblBikes`
	• `WHERE FrameSize < 52`
	Example:
	`SELECT Type, Gears`
	`FROM TblBikes`
	`WHERE FrameSize < 52`
		3	Fields in either order. Accept `WHERE 52 > FrameSize`. Ignore quotes around 52. Do not accept `<= 52`, or the words "less than" in place of <. Clauses in the wrong order (e.g. WHERE before FROM): max 2.

4(b) J277 2.2.3	1 mark per correct record: • `Mountain 21` • `Road 16`	**2**	Only B02 (48) and B07 (50) have a frame size below 52; B03 and B05 are exactly 52 and are not included. Either order of records. Any extra record (e.g. `Electric 7`): max 1. Extra fields (e.g. BikeID): max 1.
5(a) J277 2.2.3	The FROM (line) and the WHERE (line) are in the wrong order / FROM must come before WHERE / WHERE should be the last line	**1**	Accept "lines 02 and 03 should be swapped". Do not accept "Electric needs quotes" (it has them) or "SELECT is wrong".

5(b)
J277 2.2.3
	`SELECT BikeID, Location`
	`FROM TblBikes`
	`WHERE Type = "Electric"`
		1	The whole statement must be correct and in the order SELECT, FROM, WHERE. Allow it on one line.

5(c) J277 2.2.3	1 mark per correct record: • `B03 Harbour` • `B06 Park`	**2**	Either order of records. Any extra record or extra field (e.g. Type): max 1.

Total: 20 marks