MODULE N DATABASES AND SQL · N1

Databases: tables, records and fields: mark scheme

20 marks · Cambridge 0478 syllabus 9.1 (define a single-table database from given data storage requirements, including fields and records)

How to use. One mark per creditworthy point up to the maximum shown. **/** separates alternative words; **//** separates alternative answers. Words in (brackets) are not needed for the mark. Ignore minor slips in spelling and capitals unless the guidance says otherwise. Credit any other valid answer that shows the same understanding.

QUESTION	ANSWER	MARKS	GUIDANCE
1(a) 0478 9.1	One mark for each correct row: A field is one row … about one item: False Every record in a table has the same fields: True Adding a new record also adds a new field: False	**3**	Row 1 describes a record. Row 3: a new record is a new row; the fields stay the same. Both boxes ticked in a row: 0 for that row.
2(a) 0478 9.1	6	**1**	Do not accept 8 (the number of records).
2(b) 0478 9.1	8	**1**	T01 to T08. Do not accept 9 (the heading row is not a record) or 6.
2(c) 0478 9.1	`Category`	**1**	Field name must be given as it appears; ignore capitals. Do not accept `ToolName`, or a data value such as "Garden".
2(d) 0478 9.1	T02, T06, T07	**2**	Two marks for all three and nothing else. One mark for any two correct and nothing else, or all three correct plus one extra. Any order. T07 has a deposit of exactly 50.00, so it is included ("50.00 or more"). Common wrong extras: T03, T04 (available today).

QUESTION	ANSWER	MARKS	GUIDANCE
3(a) 0478 9.1	Six correct field names: 3 marks // four or five: 2 marks // two or three: 1 mark Item 1: `MemberNumber` // `MembershipNo` // `MemberID` Item 2: `FirstName` // `Forename` Item 3: `FamilyName` // `Surname` // `LastName` Item 4: `Instrument` Item 5: `MobileNumber` // `PhoneNumber` // `Mobile` Item 6: `FeePaid` // `PaidFee` // `Paid`	**3**	Accept any meaningful name for the item, written with no spaces (accept underscores, e.g. `First_Name`). A name containing a space is not correct. Do not accept a data value as a name (e.g. "Violin") or a name that does not match the item (e.g. `Name` for item 3 alone, `Date` for item 6). The same name for two items: credit it once only.
3(b) 0478 9.1	One mark for each complete, suitable record: Record 1: a value in all six columns, each suitable for its item Record 2: a value in all six columns, each suitable for its item, and a different membership number from record 1 Example: M001 | Rosa | Okonkwo | Cello | 07700 900123 | TRUE M002 | Idris | Varga | Flute | 07700 900456 | FALSE	**2**	Item 1 for record 2 must differ from record 1 (the stem says it is different for every musician). Accept any made-up names, instruments and phone numbers in any sensible format. Item 6: accept TRUE / FALSE // Yes / No // Y / N. A value in the wrong column (e.g. an instrument in item 3): lose the mark for that record. Any blank cell: lose the mark for that record.
3(c) 0478 9.1	Add a new field (to store the date joined) // add a field such as `DateJoined`	**1**	Accept "add a new column for the date joined". Do not accept "add a new record / row", or "add the date to the first name field".
3(d) 0478 9.1	One mark for each: Fields: 7 Records: 64	**2**	6 items + the new field from (c) = 7 fields; one record per musician. Fields 6 (change in (c) ignored): 0 for that mark. Answers on the wrong lines (Fields 64, Records 7): 0.

QUESTION	ANSWER	MARKS	GUIDANCE
4(a) 0478 9.1	Record, max 2: All the data stored about one item / one tool // one row (of the table) Example: any one whole row of `TOOL`, e.g. T04, Tile cutter, Building, 18.00, 60.00, TRUE // "the row for the tile cutter" Field, max 2: One item / type of data stored for every item / tool // one column (of the table) // a named category of data, e.g. a price Example: any one field name from `TOOL`, e.g. `DailyCharge` // a whole column, e.g. "the Category column"	**4**	The example mark can be awarded even if the description mark is not. A single value (e.g. "Tile cutter" or "18.00") is not an example of a record or a field. Reversed descriptions (record = column, field = row): 0 for those description marks. Accept a field example given as a field name with its values, e.g. "Deposit: 40.00, 100.00, …".

Total: 20 marks