

Grade 10 | Database | MCQ Paper

Questions 01 to 03 are based on the following database. The tables show data about books available for sale in a bookshop and the book publishers.

Book Table

Book_ID	Book_Name	Quantity	Unit_Price
B001	Exploring Moon	5	250
B002	Wonders of the World	20	200
B003	Art of Magic	50	150
B004	Red Rackan's Treasure	20	300

Book_Publisher Table

Book_ID	Publisher_ID
B001	P003
B002	P002
B003	P002
B004	P001

Publisher Table

Publisher_ID	Publisher_Name	Publ_Phone
P001	Williansons	5566778
P002	Bertram Publishers	2345678
P003	Siena and Sieana	2356987
P004	United Books	5587698

1. What is the most suitable data type for the Unit_Price in Book Table? (2015)
 - 1) Currency
 - 3) Number
 - 2) Date
 - 4) Text
2. Which of the following is most suitable as the primary key for the Book Table? (2015)
 - 1) Book_ID
 - 3) Quantity
 - 2) Book_Name
 - 4) Unit_Price
3. Which of the following field names is an example for a foreign key? (2015)
 - 1) Book_Name in Book Table
 - 2) Book_ID in Book_Publisher Table
 - 3) Publ_Phone in Publisher Table
 - 4) Publisher_Name in Publisher Table
4. Which of the following is a feature not provided by a database management application? (2016)
 - 1) Sorting Data
 - 3) Generating Reports
 - 2) Updating Data
 - 4) Generating Charts

Questions 05 to 07 are based on the following database tables.

Taxi Table

Taxi_No	Rate_Type	Driver_Name	Driver_City
FX0675	Car	Perera	Colombo
FY1256	3W	Raju	Colombo
FI6782	Van	Dias	Matara
FZ1276	3W	Perera	Kandy

Rate Table

Rate_Type	Rate
Car	44
3W	38
Van	40

5. Which of the following is the most suitable field to be selected as the primary key for the Taxi Table? (2016)
 - 1) Taxi_No
 - 3) Driver_Name
 - 2) Rate_Type
 - 4) Driver_City
6. Which of the following fields is an example for a foreign key in the database? (2016)
 - 1) Taxi_No in Taxi Table
 - 3) Rate_Type in Rate Table
 - 2) Rate_Type in Taxi Table
 - 4) Driver_City in Taxi Table

13. What is a suitable field for the primary key? (2018)
- 1) BookID
 - 2) BookName
 - 3) ISBN
 - 4) PublisherID
14. What is a suitable field for the foreign key? (2018)
- 1) BookID
 - 2) BookName
 - 3) Edition
 - 4) PublisherID

Consider the following two tables named Marks and Subjects:

Marks Table

Admission_No	Subject_Code	Marks
1111	80	89
1112	33	69
1113	34	72
1111	33	78

Subjects Table

Subject_Code	Subject_Name
80	ICT
33	History
34	Science

15. Which of the following statements is incorrect regarding the Marks and Subjects tables? (2018)
- 1) Admission_No and Subject_Code in Marks table is a composite key.
 - 2) Admission_No is a primary key in Marks table.
 - 3) Subject_Code is a foreign key in Marks table.
 - 4) There is a one-to-many relationship between Subjects table and Marks table.
16. Which of the following is correct regarding a database? (2018)
- 1) A collection of fields makes a record; a collection of records makes a table, and a collection of tables makes a database.
 - 2) A collection of fields makes a table; a collection of tables makes a record, and a collection of records makes a database.
 - 3) A collection of records makes a field; a collection of fields makes a table, and a collection of tables makes a database.
 - 4) A collection of tables makes a record; a collection of records makes a field, and a collection of fields makes a database.

Questions 17 to 20 are based on the following partly shown database tables that are used to store data about books, students, and books reserved by students in a school library.

Table: Book (Contains the details of books and whether each book is reserved or not.)

Book_ID	Title	Reserved
B0001	Effective Writing	TRUE
B0002	Classic Short Stories	TRUE
B0003	Poem Writing	FALSE
B0004	Vocal Theory	TRUE

Table: Student (Contains details of all students in school and whether each student is a library member or not)

Student_Name	Student_ID	Grade	Library_Member
Piyal	1001	7	TRUE
Kumar	1002	9	TRUE
Ismail	1003	8	TRUE
Sunil	1004	10	FALSE
Sarath	1005	7	TRUE

22. What would be the primary key of Author_Book table? (2020)
- 1) AuthorID
 - 2) BookID
 - 3) AuthorID + BookID
 - 4) AuthorID + Royalty_Share
23. Consider the following statements. (2020)
- A - AuthorID in the Author table is a foreign key
 B - AuthorID in the Author_Book table is a foreign key
 C - BookID in the Book table is a primary key
 Which of the above statements are correct?
- 1) A and B only
 - 2) A and C only
 - 3) B and C only
 - 4) All A, B and C
24. Who is the author of the book titled "Mathematics with Fun"? (2020)
- 1) Anil Ramanayake
 - 2) Indika Serasinghe
 - 3) Sharaf Khan
 - 4) Lalith Wijenayake
25. Which of the following statements are correct regarding relational databases? (2021)
- A - A record is a collection of fields.
 B - A table is a collection of records.
 C - A relational database is a collection of tables.
- 1) A and B only
 - 2) A and C only
 - 3) B and C only
 - 4) All A, B, and C

- Questions 26 to 28 are based on the following partly shown database tables that are used to store data about students, subjects and enrollment details in a school.

Student

Student_ID	Student_Name
1001	Saman
1002	Raj
1003	Sharaf
1004	Shane

Subject

Subject_ID	Subject_Name	Teacher_Name
S001	Chemistry	Perera
S002	Physics	Selvam
S003	Combined Maths	Nazwar
S004	Geography	Silva
S005	Political Science	Almeida

Enroll

Student_ID	Subject_ID	Date
1001	S002	04/01/2022
1005	S001	05/01/2022
1003	S002	09/01/2022
1001	S003	04/01/2022

26. What would be the primary key of the Enroll table? (2021)
- 1) Student_ID
 - 2) Subject_ID
 - 3) Subject_ID + Date
 - 4) Student_ID + Subject_ID
27. What would be a foreign key in the database? (2021)
- 1) Subject_ID in the Subject table
 - 2) Student_ID in the Student table
 - 3) Date in the Enroll table
 - 4) Subject_ID in the Enroll table
28. Shane dropped the "Geography" subject and enrolled for the "Political Science" subject. Which table/tables needs/need to be updated for this purpose? (2021)
- 1) Subject table
 - 2) Subject table and Enroll table
 - 3) Enroll table
 - 4) Student table, Subject table and Enroll table