

**A data dictionary is a special file that contains:**

- ☒ a. **The name, width, and data types of all fields in all files.**
- ☐ b. **The width of all fields in all files**
- ☐ c. **The data type of all fields in all files**
- ☐ d. **The name of all fields in all files**

[Clear my choice](#)

**A table is a collection of relationships, there is a close correspondence between concepts of:**

- ☐ a. Tables and instances
- ☒ b. Tables and relations
- ☐ c. Table and variables
- ☐ d. Tables and Entries

[Clear my choice](#)

Which of the following statement on the view concept in SQL is invalid?

- ☐ a. The views may be referenced in an SQL statement whenever tables are referenced.
- ☐ b. The views are instantiated at the time they are referenced and not when they are defined.
- ☒ c. The definition of a view should not have GROUP BY clause in it.
- ☐ d. All views are not updateable

[Clear my choice](#)



'\_\_\_\_' matches any string of \_\_\_\_\_ three characters. '\_\_\_\_%' matches any string of at \_\_\_\_\_ three characters.

- ☐ a. At least, Exactly
- ☒ b. Exactly, At least
- ☐ c. At least, All

[Clear my choice](#)

Which database level is closest to the users?

- ☐ a. **Internal**
- ☒ b. **External**
- ☐ c. **Conceptual**
- ☐ d. **Physical**

[Clear my choice](#)



In a relational Database a referential integrity constraint can be specified with the

- ☒ a. Foreign key
- ☐ b. Secondary key
- ☐ c. non of : Primary Key, Secondary key, Foreign key

[Clear my choice](#)

In E-R Diagram derived attribute are represented by

- ☐ a. Rectangle
- ☒ b. Dashed ellipse

☐ c. Ellipse

☐ d. Triangle

[Clear my choice](#)



Which of the following statements are TRUE about an SQL query?

P : An SQL query can contain a HAVING clause even if it does not have a GROUP BY clause

Q : An SQL query can contain a HAVING clause only if it has a GROUP BY clause

R : All attributes used in the GROUP BY clause must appear in the SELECT clause

S : Not all attributes used in the GROUP BY clause need to appear in the SELECT clause

☐ a. P and S

☒ b. Q and R

☐ c. P and R

☐ d. Q and S

[Clear my choice](#)

It is better to use files than a DBMS when there are

- ☐ a. Stringent real-time requirements.
- ☐ b. All of the following: Stringent real-time requirements., Multiple users wish to access the data., and Complex relationships among data.
- ☐ c. Complex relationships among data.
- ☒ d. Multiple users wish to access the data.

[Clear my choice](#)

Which one of the following statements is false?

- ☒ a. Data elements in the database can be modified by changing the data dictionary.
- ☐ b. The data dictionary is a tool used exclusively by the database administrator.
- ☐ c. The data dictionary is normally maintained by the database administrator.
- ☐ d. The data dictionary contains the name and description of each data element.

[Clear my choice](#)



Which of the following database object does not physically exist?

- ☒ a. **view**
- ☐ b. **none of (base table - index - view)**
- ☐ c. **index**
- ☐ d. **base table**

[Clear my choice](#)

The result of the UNION operation between R1 and R2 is a relation that includes

- ☒ a. all the tuples of R1 and R2
- ☐ b. all the tuples of R2
- ☐ c. all the tuples of R1 and R2 which have common columns
- ☐ d. all the tuples of R1

[Clear my choice](#)



**SELECT** instructor.\*

**FROM** instructor, teaches

**WHERE** instructor.ID= teaches.ID;

This query does which of the following operation?

- ☐ a. All attributes of instructor and teaches are selected
- ☐ b. All attributes of teaches are selected on given condition
- ☒ c. All attributes of instructor are selected on the given condition
- ☐ d. Only the some attributes from instructed and teaches are selected

[Clear my choice](#)

Which of the following is a legal expression in SQL?

- ☐ a. `SELECT NULL FROM EMPLOYEE;`
- ☒ b. `Select name from employee`
- ☐ c. `Select name from employee WHERE SALARY = NULL;`
- ☐ d. Not any of : `SELECT NULL FROM EMPLOYEE;` - `Select name from employee` - `Select name from employee WHERE SALARY = NULL;`

[Clear my choice](#)



The relational model feature is that there

- ☐ a. are tables with many dimensions.
- ☐ b. are explicit relationships among records.
- ☒ c. is no need for primary key data.
- ☐ d. is much more data independence than some other database models

[Clear my choice](#)

A domain is atomic if elements of the domain are considered to be \_\_\_\_\_ Units.

- ☒ a. Indivisible
- ☐ b. Constant
- ☐ c. Different
- ☐ d. Divisible

[Clear my choice](#)



For select operation the \_\_\_\_\_ appear in the subscript and the \_\_\_\_\_ argument appears in the parenthesis after the sigma

- ☒ a. Predicates, relation
- ☐ b. Relation, Operation
- ☐ c. Relation, Predicates
- ☐ d. Operation, Predicates

[Clear my choice](#)



A set of possible data values is called

- ☐ a. **tuple**
- ☐ b. **attribute**
- ☒ c. **domain**

[Clear my choice](#)

Which of the following is a comparison operator in SQL?

☐ a. Between

☐ b. ALL

☒ c. =

☐ d. LIKE

[Clear my choice](#)



**SELECT \***

**FROM** instructor

**ORDER BY** salary \_\_\_, name \_\_\_;

To display the salary from greater to smaller and name in ascending order which of the following options should be chosen?

- ☐ a. Descending, Ascending
- ☐ b. Asc, Desc
- ☐ c. Ascending, Descending
- ☒ d. Desc, Asc

[Clear my choice](#)

The conceptual model is

- ☐ a. dependent on hardware
- ☐ b. dependent on both hardware and software.
- ☐ c. dependent on software.
- ☒ d. independent of both hardware and software.

[Clear my choice](#)

**SELECT** name \_\_\_\_ instructor name, course id

**FROM** instructor, teaches

**WHERE** instructor.ID= teaches.ID;

Which keyword must be used here to rename the field name?

- ☐ a. Join
- ☐ b. Rename
- ☒ c. As
- ☐ d. From

[Clear my choice](#)



**The users who use easy-to-use menu are called Conceptual**

- ☐ a. **Casual end users**
- ☐ b. **Naïve users**
- ☐ c. **Stand-alone users.**
- ☒ d. **Sophisticated end users**

Which of the following operations need the participating relations to be union compatible?

- ☒ a. All of the following: **UNION**, **INTERSECTION**, and **DIFFERENCE**
- ☐ b. **INTERSECTION**
- ☐ c. **DIFFERENCE**
- ☐ d. **UNION**

[Clear my choice](#)

**which of the following is record based logical model?**

- ☒ a. **Network Model**
- ☐ b. **None of (Network Model - Object oriented model - E-R Model)**
- ☐ c. **E-R Model**

[Clear my choice](#)



## Conceptual design

- ☐ a. is designing the relational model.
- ☐ b. needs data volume and processing frequencies to determine the size of the c
- ☐ c. is a documentation technique.
- ☒ d. involves modelling independent of the DBMS.

[Clear my choice](#)

## The conceptual model is

- ☒ a. independent of both hardware and software.
- ☐ b. dependent on hardware