

SQL Worksheet - I

By:
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① Which of the following is/are DDL commands in SQL?

Sol) A) create
D) Alter

② Which of the following is/are DML commands in SQL?

Sol) A) Update c) Select
B) Delete

Q3) Full form of SQL is:

Sol > B) Structured Query Language

Q4) Full form of DDL is:

Sol > (B) Data definition Language

Q5) DML is:

Sol > (A) Data Manipulation Language

Q6) Which of the following statements can be used to create a table with col B int type & C float type

Sol > (C) Create table A (B int, C float)

Q7) Which statement can be used to add a column D (float type) to table A above?

Sol > (D) None of the above

8) Which statement can be used to drop column added in above question?

sol > B) Alter table A Drop Column D

9) Which of the following statements can be used to change data type of column D (float to int) from above questions?

sol > (B) Alter table A Alter Column D int

10) Suppose we want to make column B of table A as primary key of the table

sol > (C) Alter table A Add Primary Key B

11) What is data-warehouse?

sol > • A data warehouse is a large collection of business data used to help an organization make decisions

• The large amount of data in data-warehouse comes from different places such as internal applications such

as marketing, sales & finance, customer facing apps etc.

A data warehouse periodically pulls data from those apps; then the data goes through formatting and import processes to match the data already in the warehouse

(12) What is the difference between OLTP v/s OLAP

OLTP

OLAP

(1) It is online transactional system and manages database modification

It's online data retrieving and data analysis system

(2) Insert, update, delete information from the database

Extract data from analyzing what helps

(3) Processing Time is lesser than OLAP

Processing time is more than OLTP

(4) Simpler Queries

Complex Queries

(13) What are the characteristics of data-warehouse?

The characteristics of data warehouse are :-

- Integrated

The way data is extracted and transformed is uniform, regardless of original source

- Time-variant

Data is organized via Time Periods

- Non-volatile

A data warehouse is not updated in real time. It is periodically updated via uploading of data protecting it from influence of ~~more~~ momentary change.

(14) What is Star Schema?

- Star schema in data warehouse, in which the center of the star can have one fact table and a number of associate dimension tables

- It is known as star schema as its structure resembles a star

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 The Star Schema data model is the simplest type of Data Warehouse Schema. It is also known as Star Join schema and is optimized for querying large datasets.

(15) What do you mean by SETL?

- SETL is a very high level programming language with dynamic typing and dynamic data structures, based on mathematical notion of Set.
- The language introduced a fundamental new paradigm in programming in which sets, ordered sets and maps are the principle data structures & the programs are expressed in terms of set constructors, set operators and predicates on sets.

SQL worksheet - 2

By:
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② Which of the following constraint requires that there should not be duplicate entries?

Sol) D) Unique

③ Which of the following constraints allow null values in a column?

Sol) D) None of them

④ Which of the following statements are true regarding primary key?

Sol) (A) Each entry in the primary key uniquely identifies each entry or row in the table

⑤ Which of the following statements are true regarding unique key?

Sol) A) There should not be any duplicate entries

⑤ which of the following is/are example of referential constraint?

Ans) B) Foreign Key.

⑥ How many foreign keys are there in Supplier table?

Sol) (B) 3

⑦ The type of relationship between Supplier table and product table is

Sol) A) one to many

⑧ The type of relationship between Order table & Headquarter table

Sol) C) one to one

⑨ which of the following is foreign key in a delivery table

Sol) A) delivery Id

(10) The number of foreign keys in order detail is :

Sol > (c) 3

(11) The type of relationship between order detail table and product table is :

Sol > many to one

(12) DDL statements perform operation on which of the following database objects?

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Sol > (c) Table

(13) Which of the following statement is used to enter rows in a table

Sol > A) Insert into

(14) Which of the following is/are entity constraints in SQL

Sol > (c) Primary Key , (B) Unique

(15) which of the following is an example of semantic constraint

Sol) B) A blood can only have contact characters