

?] What is SQL?

MOTES GALLERY (TELEGRAM).

SQL stands for Structured Query Language.
SQL is a standard language for relational database management systems.

• SQL is specially useful in handling organized data comprised of entities and relations between different entities of data.

? What is DBMS?

DBMS Database Management system is a software that is used to manage the database.



- A DBMS serves as an interface between end-user and database, allowing users to and a database, allowing user to create, read, delete data in the database.
- Most widely used types of DBMs software are relation, distributed, hierarchical, object-oriented and network.

[?] What is Database?

MOTES GALLERY (TELEGRAM).

G · A database is an organized collection of data, and it can be easily accessed & managed.

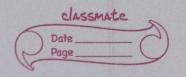
- · We can organize data into tables, rows, coumns and index to find relevant info.
- The main purpose of the database is to operate large amount of information by storing, retrieving and managing data.
- There are many databases available like Mysal, Oracle, Mangodb, sal server.

[?] What is RDBMS?

- (RDBMS Stands for Relational Database Management System.
 - Relational Database management system is collection of programs & compatibilities that enables IT teams.
 - · RDBMS store data in the form of tables.



2.



RDBMs provides a dependable method of storing and retrieving large amount of data.

RDBMS uses SQL queries to access the data in database.

?] What is a Database Table?

6. A table is a collection of related data entries and consist of column & rows.

· A row is each individual entry that exist in a table.

every record in a table.

· Columns can be arranged in verticle and yows as horizontal.

The column in table also called fields and yours called records.

What is Primary Key?

ATUL KUMAR (LINKEDIN).

NOTES GALLERY (TELEGRAM).

A Primary Key is a minimal set of at attributes in a table that uniquely identify yours in that table i.e. tuples.

Nhen multiple columns are used as a primary Key, it is known as composite primary Key.

Mhile using composite primary key you should use few column as possible.

When more columns you use for primary key the more storage space you required.

· Primary key has unique data.

· Primary key cannot have null value.



• We cannot use duplicate value for primary key.

· Maximum length of primary key 900 bytes.

? What is foreign key?

* A Foreign key is a key used to link two tables together. It is also called referencing key.

A Foreign key is a combination of column whose value match primary key in different table.

· Use of foreign key is to link attributes of two tables with the help of primary key attributes.

the relationship between two relations.

Mhat is a Join? NOTES GALLERY (TELEGRAM).

The sal Join clause is used to combine yours from two or more tables in a sal database based on related column between the two.

There are four different types of Join's .:-

1. JOIN
2. LEFT JOIN
3. RIGHT JOIN
4. FULL JOIN

What is the SELECT statement?

SELECT Statement in SQL is used to yecover data from a database.

The data returned is stored in result table called yesult - set.

The SELECT to determine what to include in final result set.

ATUL KOMAR (LINKEDIN). NOTES GALLERY (TELEGRAM). What is cursor in sol?

Cursor is a temporary work station. It created in system memory when sal statement is executed.

A SQL CURSOR is a set of yours together with points that identify yows.

Types of cursor:

1). Implicit cursor.
2). Explicit cursor.

Cursor are used to store Database table.

What is relationships in Sal?

Relationship is a link between entities that have something to do with each other. It includes one to one, many to many, many to one relations. Relation in database allow for clear table & help cut redundant database is important.

[?] What are Entities?

C. An entity can be real world object.

An entity can be a single thing, person, place or object.

· Data can be stored about such entities.

[?] What is an index is sol?

SQL index is a table used to speed up the searching of the data.

· It also recover large amount of data

From tables.

· INDEX requires its own space in storage device.

· INDEX is a pointer to data in a table.

• An INDEX is same to an index in the back of book.

· INDEX is also unique constraint.

What is a Self - Join? NOTES GALLERY (TELEGRAM).

C. It is a join in which table is joined with itself.

• The self-join can be viewed as a join of

two copies of same table.

Self-Join statement is important when two sets of data in same table are compared.

[?] What is a cross - Join?

Cross-Join is a Cartesian product of rows from tables in join.

- Cross Join is combination of each you of first table with each you of second table.
 - It is also called cartesian join.

[?] What is Alias in sal?

- 6. Aliases are temporary name given to table or column for sal query.
 - It used when name of table is used other than oxiginal name.
 - · Aliases used to make column names more readable.
 - · Aliases useful when there are more than one table complicated in a query.

What is Normalization? NOTES GALLERY (TELEGRAM).

- Normalization is a process restructure the data in database. There is no redundancy of data, all data stored in one place.
 - It eliminates characteristics like Insertion, Update and Deletion Anomalis. It converts large table in small tables and link them by relationships.

[?] What is Denormalization?

- V. It is inverse process of Normalization.
 - When converted all small tables want to make single table then we have to use denormalization.
 - Denormalization is a technique used by database to optimize the efficiency of database.
 - · This method allows to add mixed data into normal database.