# nterview Juestions

- ŧ What is SQL ?
- sal stands for structured guery Language.
  - · SQL is a standard language for relational
  - database management systems.
    . sgl is specially useful in handling organized data comprised of entities and relations between different entities of data.
- 2 What is 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.
- 3 What is Database?
  - · A database is an organized collection of data, and it can be easily accessed & managed.
  - · We can organize data into tables, rows columns 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 MysQL, Oracle, Mongo DB, SQL server.
- 4] What is ROBMS?
- → · 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.

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4		RDBMs provides a dependable method
		of storing and retrieving large amount
		of data.
		. RDBMs uses SQL queries to access the
		data in database.
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	5]	What is a Database Table ?
	<b>→</b>	. A table is a collection of related data
		entries and consist of column & rows.
1		. A row is each individual entry that
		exist in a table.
		· A column holds specific information about
		every record in a table.
	•	· Columns can be arranged in verticle and
		rows as horizontal.
		. The column in table also called fields and
		rows called records.
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	6]	What is Primary key?
	$\rightarrow$	· A primary key is a minimal set of
		at attributes in a table that uniquely identify
		rows in that table i.e. tuples.
		. When multiple columns are used as a primary
		key, it is known as composite primary key.
		. While using composite primary key you should
		use few column as possible.
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- · 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
- . Maximum length of primary key is 900 bytes.

### What is Foreign key? 7

- · A foreign key is a key used to link two tables together. it also called referencing

  - 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. attribute.
  - . Hence, it used for creating & maintaining the relationship bet two relations.

#### 8 What is a Join ?

The sol join clause is used to combine rows from two or more tables in a SQL database based on related column between the two.

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		. There are four different types of JOIN's:	
		I) JOIN	
		2) LEFT JOIN	
		8) RIGHT JOIN	
		4) FULL JOIN.	
	9]	What is the SELECT statement?	
	<b>→</b>	. SELECT statement in SQL is used to recover	
		data from a database.	
		. The data returned is stored in result table	
		called result - set.	
		. The SELECT to determine what to include	
		in final result set.	
	10]	What is cursor in SQL?	
	<b>→</b>	. Cursor is a temporary work station.	
		. It created in system memory When sqL	
		statement is executed.	
0	¥	. A sol cursor is a set of rows together	
		with points that identify rows.	
		. Types of cursor:	
		1) Implicit cursor.	
		2) Explicit cursor.	
		· Cursor are used to store Database tables.	
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	11]	What are Entities?
	$\rightarrow$	. 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.
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6,	<del>→</del>	· Relationship is a link between entities that
Н		have something to do with each other.
$\vdash$		. 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.
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	>	· sol index is a table used to speed up the
<u> </u>		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
363		of book.
98		· INDEX is also unique constraint.

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- 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.

## 157 What is a cross-Join?

- → · Cross-Join is a Cartesian product of rows from tables in join.
  - · Cross Join is combination of each row of first column table with each row of second table.
  - · It is also called cartesian join.

## 16 What is Aliase in Squ?

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

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	177	What is Normalization?
Ī		. Normalization is a process restructure the
Ī		data in database.
		. There is no redundancy of data, all data
I		stored in one place.
		· It eliminates characteristics like Insertion,
		Update and Deletion Anomalis.
		· Normalization converts large tables in small
		tables. and links them by relationships.
	18]	What is Denormalization?
	$\rightarrow$	. 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.
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