nterview Juestions

By: @curious_programmer.

- ŧ What is SQL ?
- sal stands for structured guery Language.
 - . SQL is a standard language for relational
 - database management systems.
 . 39L 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. @cyrious_.programmer 3 What is Database? · A database is an organized collection of data, and it can be easily accessed & managed. · Me 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, MongoDB, SQL server. What is RDBMS? 4 . 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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Date:	
Page:	3

	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?	
→	. 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.	
	· 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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Date :	
Page: 4	

- · 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 ken.
- . Maximum length of primary key is 900 bytes.

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7 What is Foreign key?

- → · A foreign key is a key used to link two tables together. it 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. attribute.
 - Hence, it used for creating & maintaining the relationship bet two relations.

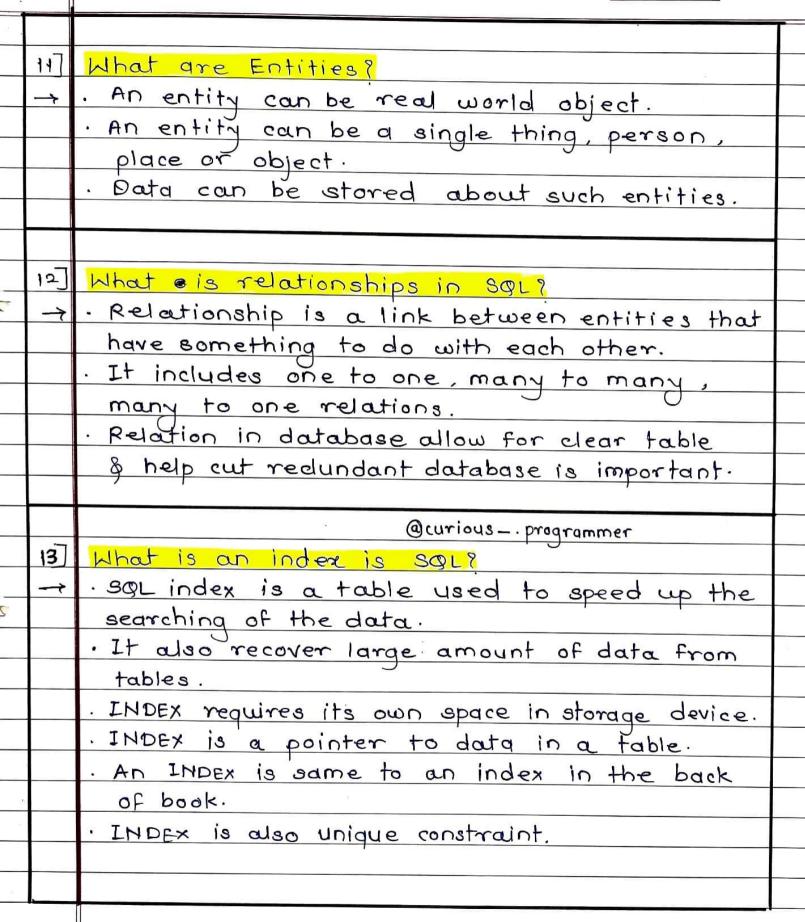
8] What is a Join ?

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

Date:
Page: 5

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		. There are four different types of JOIN's:	
		1) JOIN	
		2) LEFT JOIN	
		8) RIGHT JOIN	
		4) FULL JOIN.	
	9]	What is the SELECT statement?	
	-	. 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.	
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	10]	What is cursor in SQL?	
	→	. Cursor is a temporary work station.	
		. It created in system memory When sqL	
		statement is executed.	
	¥	. A sol cursor is a set of rows together	
		with points that identify rows.	
1		. Types of cursor:	
		1) Implicit cursor.	
		2) Explicit cursor.	
		. Cursor are used to store Database tables.	
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CIASSMATE		
Date :		
Page:	6	



CIASSMATE
Date:
Page: 7

- 12			_
	14	What is a Self-Join?	
	1	· It is a join in which table is joined with	
		itself.	
		. The self join can be viewed as a join of	L
		two copies of same table.	
		. Self-join statement is important when two	
		sets of data in same table are compared.	
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	15]	What is a cross-Join?	L
	\rightarrow	· 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.	
		· · · · · · · · · · · · · · · · · · ·	
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	\rightarrow	· Aliases are temporary name given to table or column for sal so query.	
		or column for soil so query.	
		. It used when name of table is used other	
0.000		than original name.	
		· Aliases used to make column names more	
No.		readable.	
		· Aliases useful when there are more than	
		one table complicated in a query.	
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CIASSMATE
Date:
Page: 8

What is Normalization?
. 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.
· Normalization converts large tables in small
tables. and links them by relationships.
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What is Denormalization?
. It is inverse process of Normalization.
· When converted all small tables want to
make single table then we have to use
denormalization.
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· Denormalization is a technique used . by
· Denormalization is a technique used . by database to optimize the efficiency of database.
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