What is Data Base 7 and appropriate of 1200

A database is an organized collection of data, computer stored and retrieved digitally system.

Ques-2 What is SQL?

Ans-2 SQL stands structured Query Longuage. It is a Longuage used to interact with the database,

- -) to create DataBase ...
- -) to create table
- -) to netrieve data. In and
- to update table i.

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Ans-3 SQL is a Longuage but it does not support programming as it is a command longuage. We only have commands we can use query, update, delete etc.

Ques-4 What is DBMS?.

Ans-4 DBMS stands for DataBase Management System.

It is system software responsible for the creation, retrieval supdation and management of database.

Ques-5 What is RDBMS? How it is different from DBMS?

Ans-5 RDBMS stands for Relational Database Management 3 system. RDBMS stores data in the form of collections sidne sill in make of tobles.

Ques-6 What is the difference between SQL and MySQL?

Ans-6 sal is standard language jour metrieving and manipulating structured dotabase management system Mysol is relational database like oracle, IBM etc.

Ques-7 What are Tables and Fields ?

A table is an organized collection of data stored the join of rows and columns. The columns in a table one called fields.

Row can be rejevired to as Records. MILLE ROLL NO JULIOU'S I

Ans-8 constraints are used to specify the rules concerning data in the table.

O NOT NULL O CHECK O DEFAULT REPORTED Ans-9 BETWEEN: The BETWEEN operator is used to jetch rows bosed on range of values.

For Example

SELECT * FROM students

WHERE ROLL-NO BETWEEN 20 AND 30

IN operator is used to check for values contained in specific sets.

Example: SELECT * FROM Students
WHERE ROLL-NO IN (20, 21, 23);

Ques-10 What do you mean by data definition Languages 5

Ans-10 Data Definition Language allows execution of Manne queries like CREATE, DROP and ALTER

Ques-11 What do you mean by data manipulation Language?

Ans-11 Data monipulation language or DML is used to occess or monipulate data in the DataBase.

- O Insert pata or rows
- pelete "
- @ Retrieve Dalon a moles Dov
- · update

Ques-12 What is Primary Key? */

Ans-12 Primary Key is one of candidate Keys One of candidate Key is selected becomes primary key.

Primary Key is Unique it connot be more than once.

Ans-13 Forceign key is a field in one table that refers
to the Primary key in another table. The

Ques-14 White some SQL Functions?

Ans-14 COUNT(): It returns the number of nows.

Syntax- SELECT COUNT (column_name)
FROM table_name
Where condition;

AVG(): It returns the average value.

Syntax- SELECT AVG(Column_name)
FROM table_name
Where condition;

Syntax- SELECT AvG(Column_name)
FROM table_name
Where condition;

SUM(): It returns the total sum of numeric column.

Ques-15 What is a Join? List its different types the Ans-15 A Join clause is used to combine rows from two or more tables.

Inner Join: Inner Join Keyword selects records that have matching values in both tables: Inner Join

Syntax - SELECT column_nome(s)

FROM table! INNER JOIN table?

on table! column_name = table 2. column_name

Outer Join: SQL LEFT JOIN:

LEFT Join Keyword return all records from the left side (table!) and matching records from LEFT Join right side (table?).

Syntax: SELECT column_name(s)
FROM table1
LEFT JOIN table2

ON table : column-name = table 2 : column_name.

SQL Right Join Keyword: Right Join Keyword retwin

all records from right table (table 2) and matching
records from Left table (table).

Right Join
Right Join
Right Join
Right Join
Right Join

Syntax: SELECT column_name(s) from table 1 (table syntax: RIGHTJOIN table 2 on table 1 column_name = table 2 column_name

SQL FULL OUTER JOIN: - FUII outer Join Keyword returns all record when there is a match in left (table) or right (table) records.

syntax: SELECT Column_name(5)

from table 1 FULL OUTER FOIN

table 2 - on table 1 column_name = table 2. column_name

Ques-16 What is on Index? Explain lits 1500 Ans-16 A database index is a data structure that provides a quick Lookup of data in a column of a table. It enhances the speed of operations to maintain the index data structure.

Ques-17 What is a Query ?

Ans-17 A Query is a request jor data or injormation from a database table or combination of tables.

Ques-18 What is subquery?

Ans-18 A Subquery is query within another query are also known as nested Query are inner guery.

Ques-19 What is a Self Join? Horming shop on the comp

Ans-19 A self join is a case of regular join where a table is joined to itself based on some relation own column. This is known as self Join. of bosin of it : a more of the

Ques-20 What is a CHOSSTJOIN?

Ans-20 Cross Join can be defined as a cartesian product of two tables included in the Join is known os the Cross

Oues-21 What is the difference between clustered and Non-Clustered Index?

Ans-21 Clustered Index: the way necords one stored in a database based on indexed column.

Non-clustered Index: creates a separate entity within the table which references the oxiginal table.

Ques-22 What are some common clauses used with a SELECT query in SQL!?

Ans-22 some common sal clauses:

- where clause: It is used to filter records that are necessary based on specific conditions.
- O ORDER BY: It is used to sout the records based on some field in ascending (ASC) or Descending Order (DESC).

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- O arour By: It is used to group πecords with identical data can be used in conjuction with some aggregations functions.
- HAVING: HAVING clause in sal is used to filter records in combination with GROUPBY clause. It is different from WHERE, since the WHERE clause cannot filter aggregated records.

Ans-23 What are UNION, MINUS and INTERSECT commands? (12)

Ans-23 UNION: It combines and retwrn the result-set in retrieved by two or more select statements.

MINUS: MINUS operator in SQL is used to remove duplicates from the result-set obtained.

INTERSECT: combines the result-set Jetched by the two select statements and then retwrns this

interection of result-set

Ques-24 What are Entitles and Relationships 2007.

Ans-24 Entity: A entity can be real-world object that can be easily identifiable. Each entity has some associated properties.

Relationships: Relationship defines the links between the entities is known as Relationship.

Ques-25 List the different types of relationships in SQL; Ans-25 One to One: Relationship between two tables where each record in other table is associated with maximum of one record in other table.

multiple records in other table table table table

many to Many: Many record in table is associated with many record in another table.

Tablel

table 2

Retationships: Relationship

Ques-26 What is normalization? Ans-26 It is a process of minimizing Redundancy is known

> Minimizing the Insection, Deletion and Update Aniemalia

Ques-27 What is Denormalization? Ans-27 Denormalization is database optimization technique in which we add redundant data to one on more Immond horeld northern as see tobles.

Ques-28 What is a trigger? Ans-28 The trigger is a statement that a system. executes automatically when there is any modification * Action performed when trigger executes.

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Ques-29 What is the difference between DELETE and DROP and TRUNCATE commands?

Ans-29 DELETE command: delete one or more existing records From the table in the database.

DROP command: drops the complete table from database. TRUNCATE command: delete all the nows from existing database leaving rowith column names!

aues-30 What is a stored Procedure?

AMS-30 Stored Procedure: Stropping & Month & It is used to perform one or more DML C Data Manipulation operation) on database. It is a group of SQL statements. is a Vetion of Journal of a votal x &

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Ans-31 Aggregate Functions: are often used with GROUP BY

and Havina clouse.

Avai: - coiculates the mean of records in table

count():- coiculate minimum of values.

MIN():- colculate moximum of values.

MAX():- colculate moximum of values.

Sum():- colculate sum of all values.

Scalar Function: return a single value.

Scalar Function: return a single value.

LEN():- Calculate total length of column.

UCASE():- Converts a string values to uppercase characters.

LCASE():- Converts a string values to Lowercase characters.

Concatenate two or more strings.

Ques-32 Name the operator which is used in the query your appending this strings?

Ques-33 What is main disadvantage of deleting data from existing table using DROP TABLE command?

Ans-33 DROP Table command deletes complete data from table along with removing complete table structure to. If we want to remove data only and maintaining the table structure then use the TRUNCATE command.

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