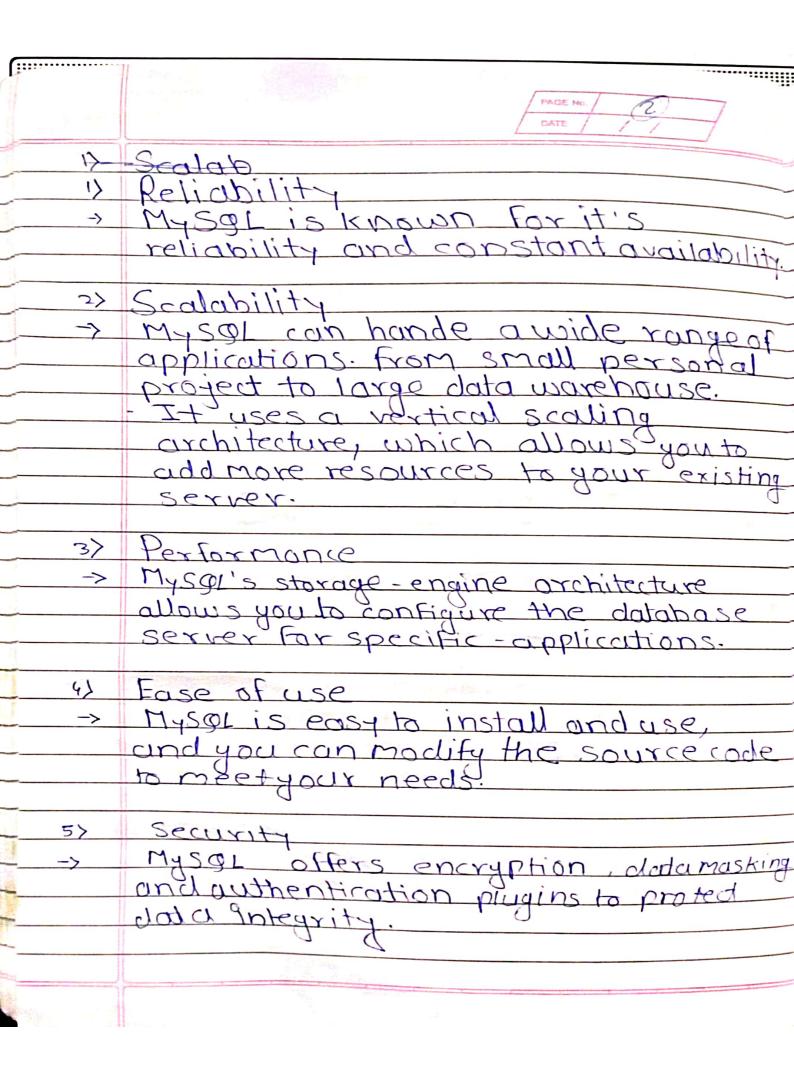
1459 L 1 1.0ct > 91 Inhat is MYSQL > > 1) MySQL is a relational dalabase management system.

2) MySgr is open source 3> Mysgl is free 45 My SOL Is ideal for both small and large applications. 5> Mysgr is very fast, reliable, scalable, and easy to use.
6) The Mysgr Document store allowsusers to mix relational data and JSONI documents in the same database and application -9. INly to use mysgi? MysgL is a popular open-source relational database management system (RDBMS) for storing and managing data because of it's manyadvantage including. 12 Reliability 2> Scalability 3) Performance & Fase of use 6> Open Source 5> Security Theb and data warehouse strengths.



lateb and data warehouse 62 Strengths.
My Sar it the de-For standard for high-traffic websites because ofits last data insert capability and support for specialized wer functions. Irlhatis database? A databased is structured collection of data that's stored electronically on a computer system of data fincluding numbers, words, images, and villess and Files. Inhat is rabms? 94. robms is a database management system that stores duta in the formof tables, which are composed of rows and columns, it supports structured the data. -> data is stored intables atable of consists of rows and column. Each row in atable represents a single record and each column represent a data fei field.

for a record in a table. Each table can have only one primary key. that is a primary key in another table.

It establishs a relationship bet the two tables. # Kelationships: Robers handles different types of ret bet tables:> · The-to-one: Each record in one table is releated to a single record in another table. · one-to-many: A record in one table combe releated to multiple records in another table. Records instable are related through a third table.

95. Inhat is Primary Key?

A primary Key is a column

or set of columns in a data base
table that uniquely identifies eachrow:

- A primary Key ensures that
each now in a table is distinct
which is essential for maintaining data integrity.

- It sereves as the main reference point for database operations, such as searching, updating and deleting records.

- A table can only have one primary key and the values in the primary key must be uplace.

p.6 Explorealdada types in sol? 1- Numeric Data Types * INT: Inlhole num (-2,147,483,648 to 2,147,483,6 *TINYINI' Small integers (0 to 255 or -258 to 12 SMALLINT: Small integers (-32,768 h 32,767). Medium INT: Medium - Sized integers (-8,388,608 to 8,388,607) BIGITNI: Large integers
(-9 quintillion to 9 quintillion) DECIMAL: Exact values with perecision and scale. Float 1 Double: > Approximate values with a Floating point precision. #2 String Data Types. CHAR(n): Fixed longth string. VARCHAR(n): Variable-length String. TEXT: Large text data (up to 65,535 chas). TIWYTEXT, MEDIUMTEXT, LONDIEXI: Larger variants of TEXT.

| | PROBE NO. / 7 |
|-----------|--|
| | # Binary Data Types |
| 3,6487. 4 | BINARY: fixed-length binary data. |
| 127). | VARBINARY(n): Variable-length binary |
| + | BLOB: large Binary Objects. |
| | # Date and time dutaty pest |
| * | DATE: Stores doute (YYYY-M-M-DD) |
| * | Date Time: Date and time compined |
| 7+ | Time Stamp? Date, time, and timezone- |
| + | Year: stores a year (YYYY or YY Formal)- |
| | # Boolean Dota Type. |
| | Boolean Bool: True or false |
| | # Miscellaneous Datatypest - |
| | ENIUM: Predifined list of values. |
| | SET! Store a multiple value from |
| | UUID! 128-bit unique identifier. |
| | |

| FAGE ! | 40. / | | 8 | |
|--------|-------|---|---|--|
| DATE | 1 | 1 | 1 | |
| | | | | |

JSON: Stores JSON data.

XML: Stores XML data.

Special Data types

Geometry: stores geomatric shapes

INF / INFTG: Stores IP addresses.

97 Inhat are CRUD Guries?

CRUD qur' are fundamental

operations used in dutabase Manyement and application development

to handle persistent data.

CRUD is stands For Create, Read.

update, and Delete.

1. Create - Add new records or data

insert into users (username, email pass), values ('uvi-rajo]' junegmail com', #34A27

2. Read- view existing data from db.

select username, email from users where

| | PAGE No. 9 DATE / / |
|---------|--|
| 3. | Update - Modify the existing data with in data base. |
| | with in data base. |
| | |
| | Update users |
| | Set email = 'yur new@gmail.com' |
| - | Set email = 'yur.new@gmail.com' Inthere user-id=1; |
| | |
| 4. | Delete -> Remove existing data From the |
| | dutabase. |
| - mg. , | |
| /05 v | Delete from users Where id user-id= |
| | 1; |
| | |
| | |
| | |
| | |
| | |
| | |