

In [ ]: 1.what is the database ?differentiate between sql and nosql databases  
->a database is information that is set up for easy access,mangement and updating  
-> sql database is primarily called relational databases,relational databases model tables with logical link between them  
->nosql is classs databases that are non relational and generally do not use sql

In [ ]: 2.what is DDL ?expalin why create ,drop,alter,and truncate are used with an example  
->data definiton language(DDL) that dascribes the portion of sql that creates ,alte  
->create statement is used to create tables .it is also used to craete indexes ,vi  
eg. CREATE TABLE Testing(id INTEGER);  
->drop table statement is used to drop a table from databases  
eg. DROP TABLE Testing;  
->ALTER TABLE statement is changes the structure of an existing table .  
eg ALTER TABLE Testing RENAME TO TestTable;  
->TRUNCATE TABLE removes all the rows from a table ,but the table structure and its  
remain  
eg.TRUNCATE TABLE Testing;

In [ ]: 3.what is DML?explain insert ,update ,and delete with an example  
->data manipulation language (DML) statements are the element in the sql language t  
and manipulation  
->INSERT-insert data into a table  
eg INSERT INTO students('stu\_id' int,'stu\_name' varchar(20),'city' varchar(20)) V  
  
->UPDATE-update existing data within a table  
eg. UPDATE student  
SET due\_fees=2000  
WHERE stu\_name='abraham';  
  
->DELETE-delete records from a database table  
eg.DELETE FROM students  
WHERE stu\_id ='047';

In [ ]: 4.what is DQL? explain select with an example  
->data query language (DQL) statements are used for performing queries on the data  
->SELECT-it is used to retrieve data from the database  
eg SELECT\*FROM students;

In [ ]: 5.explain primary key and foreign key .  
->peimary key is column or group of column in a table uniquely identifies the rows  
->foreign key is used to link between two tables together this sometimes also calle  
a foreign key is a column or group of column whose values are derived from the pr

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In [ ]: 6.write a python code to connect MYSQL TO PYTHON .explain the cursor and execute me
->import mysql.connector
mydb=mysql.connector.connect(
    host='localhost'
    user='abc'
    password='password'
)
cursor=mydb.cursor()
cursor.execute('CREATE DATABASE PWSKILLS')
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In [ ]: ->cursor and execute method allows python code to execute postgresSQL command in a
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In [ ]: 7.give the order of execution of sql clauses in an sql query
->the order in which the clauses in queries are executed is as follows

FREOM/JOIN-determine data of interest
WHERE-filter out records
GROUP BY-group the data based on the values in column
HAVING-removed the created grouped records
SELECT-derive all desired expressions
ORDER BY-to sort the derived values
LIMIT/OFFSET-skip or keep specified no. of rows
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