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In [1]: """
Que 1-
What is MongoDB? Explain non-relational databases in short. In which scenarios
it is preferred to use MongoDB over SQL databases?

Ans 1-MongoDB is a source-available cross-platform document-oriented database
program. Classified as a NoSQL database program, MongoDB uses JSON-like
documents with optional schemas

A non-relational database is a database that does not use the tabular schema
of rows and columns found in most traditional database systems

NoSQL databases like MongoDB are a good choice when our data is document-
centric and doesn't fit well into the schema of a relational database, when
we need to accommodate massive scale, when we are rapidly prototyping, and
a few other use cases
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Que 2-State and Explain the features of MongoDB.
Ans 2-MongoDB supports field queries, range queries, and regular expression
searches.

Que 3-Write a code to connect MongoDB to Python. Also, create a database and
a collection in MongoDB.

Ans 3-

import pymongo
client = pymongo.MongoClient("mongodb+srv://rakeshrajputa55:Ash03071999@cluster0.pkhszs.mongodb.net/?retryWrites=true&w=majority")
db = client.test

db=client['my_database']

db_collection=db["my_collection"]

Que 4-
Using the database and the collection created in question number 3,
write a code to insert one record, and insert many records.
Use the find() and find_one() methods to print the inserted record.

Ans 4-

data={
    "name":"sudh",
    "class":"data science master",
    "time":"flexi"
}

coll_pwskills.insert_one(data)

list_of_records=[
    {
        'companyName':'coolboy',
        'product':'Affordable AI',
        'courseOffered':'Machine Learning with Deployment'},
    {
        'companyName':'coolboy',
        'product':'Affordable AI',
        'courseOffered':'Machine Learning with Deployment' },
    {
        'companyName':'coolboy',
        'product':'Affordable AI',
        'courseOffered':'Machine Learning with Deployment'}
]
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coll_pwskills.insert_many(list_of_records)
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coll_pwskills.find_one()
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```
coll_pwskills.find_many()
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Que 5-Explain how you can use the find() method to query the MongoDB database. Write a simple code to demonstrate this.

Ans 5-In mongoDB, the find() method is used to fetch a particular data from the table. In other words, it is used to select data in a table. It is also used to return all events to the selected data. The find() method consists of two parameters by which we can find a particular record.

```
coll_pwskills.find_one()
```

Que 6-Explain the sort() method. Give an example to demonstrate sorting in MongoDB.

Ans 6-The sort() method can be used to sort the metadata values for a calculated metadata field.

Que 7-Explain why delete_one(), delete_many(), and drop() is used.

Ans 7-deleteOne()

deletes the first document that matches the filter. Use a field that is part of a unique index such as _id for precise deletions.

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delete_many()
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The deleteMany() method allows you to remove multiple documents from a specific collection of MongoDB databases

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drop()
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The drop() function is used to remove a set of labels from a row or column.

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Out[1]: ''
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