```
In [3]: !pip install pymongo

        Requirement already satisfied: pymongo in c:\users\karthi\pycharmprojects\pythonproject\venv\lib
        \site-packages (4.3.2)
        Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in c:\users\karthi\pycharmprojects\pytho
        nproject\venv\lib\site-packages (from pymongo) (2.2.1)

In [1]: import pymongo

In [2]: import json
        from pymongo import MongoClient

In [3]: myclient = MongoClient("mongodb://localhost:27017/")

In [4]: db = myclient["guvi_project"]

In [5]: collection = db["students_data"]

In [6]: f=open("students.json")

In [7]: data=json.load(f)

In [8]: data
```

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{'_id': 197,
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        {'score': 28.86823689842918, 'type': 'homework'}]}]

In [55]:
```python
if isinstance(data,list):
    collection.insert_many(data)
else:
    collection.insert_one(data)
```

In [56]:
```python
for i in collection.find():
    print(i)
```

{'_id': 0, 'name': 'aimee Zank', 'scores': [{'score': 1.463179736705023, 'type': 'exam'}, {'score': 11.78273309957772, 'type': 'quiz'}, {'score': 35.8740349954354, 'type': 'homework'}]}
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{'_id': 11, 'name': 'Marcus Blohm', 'scores': [{'score': 78.42617835651868, 'type': 'exam'}, {'score': 82.58372817930675, 'type': 'quiz'}, {'score': 87.49924733328717, 'type': 'homework'}]}
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{'_id': 151, 'name': 'Meagan Oakes', 'scores': [{'score': 75.02808260234913, 'type': 'exam'}, {'score': 35.45524188731927, 'type': 'quiz'}, {'score': 75.84754202828454, 'type': 'homework'}}]
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In [88]:
```python
#Find the student name who scored maximum scores in all (exam, quiz and homework
for i in collection.aggregate([
    {"$project":{"_id":"$name","max_score":{"$max":"$scores.score"}}},
                    {"$sort":{"max_score":-1}},{"$limit":1}
]):
    print(i)
```

```
{'_id': 'Cody Strouth', 'max_score': 99.80348240553108}
```

In [106...
```python
# Find students who scored below average in the exam and pass mark is 40%?
for i in collection.find([
    {"$project":{"scores.type":"exam",
                 {"scores.score":{"$lt":40}}}}
]):
    print(i)
```

  Cell In [106], line 4
    {"scores.score":{"$lt":40}}}}
                    ^
SyntaxError: ':' expected after dictionary key

In [ ]:
```python
#Find students who scored below pass mark and assigned them as fail, and above pass mark as pass
```

In [83]:
```python
#Find the total and average of the exam, quiz and homework and store them in a separate collectio
db = myclient["guvi_project"]
collection = db["total_average"]
```

In [84]:
```python
if isinstance(data,list):
    collection.insert_many(data)
else:
    collection.insert_one(data)
```

In [87]:
```python
for i in collection.aggregate([
    {"$project": {"_id":"$name","totalmark":{"$sum":"$scores.score"},"average":{"$avg":"$scores.s
]):
    print(i)
```

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{'_id': 'Tamika Schildgen', 'totalmark': 159.53213257952987, 'average': 53.17737752650996}
{'_id': 'Jesusa Rickenbacker', 'totalmark': 115.54875333859893, 'average': 38.51625111286631}
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{'_id': 'Jonie Raby', 'totalmark': 102.86145390316119, 'average': 34.28715130105373}
{'_id': 'Edgar Sarkis', 'totalmark': 199.81866315163785, 'average': 66.60622105054595}
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{'_id': 'Gwen Honig', 'totalmark': 201.4156031244819, 'average': 67.1385343748273}
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{'_id': 'Carli Belvins', 'totalmark': 174.61862132435388, 'average': 58.20620710811796}
{'_id': 'Synthia Labelle', 'totalmark': 141.50995457365985, 'average': 47.16998485788662}
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{'_id': 'Meagan Oakes', 'totalmark': 186.33086651795293, 'average': 62.11028883931764}
{'_id': 'Richelle Siemers', 'totalmark': 139.60355242003698, 'average': 46.53451747334566}
{'_id': 'Mariette Batdorf', 'totalmark': 182.97224595186648, 'average': 60.99074865062216}
{'_id': 'Rachell Aman', 'totalmark': 164.66123279589482, 'average': 54.887077598631606}
{'_id': 'Aleida Elsass', 'totalmark': 167.56608209438596, 'average': 55.855360698128656}
{'_id': 'Kayce Kenyon', 'totalmark': 144.78774966244362, 'average': 48.262583322081454}
{'_id': 'Ernestine Macfarland', 'totalmark': 160.1015626796132, 'average': 53.36718755987107}
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{'_id': 'Lady Lefevers', 'totalmark': 188.71235039768163, 'average': 62.90411679922721}
{'_id': 'Kurtis Jiles', 'totalmark': 169.36123484704996, 'average': 56.45374494901665}
{'_id': 'Barbera Lippman', 'totalmark': 123.87383657752201, 'average': 41.29127885917401}
{'_id': 'Dinah Sauve', 'totalmark': 75.2279417690119, 'average': 25.075980589670635}
{'_id': 'Alica Pasley', 'totalmark': 165.6328413850593, 'average': 55.2109471283531}
{'_id': 'Elizabet Kleine', 'totalmark': 128.08011084675638, 'average': 42.693370282252125}
{'_id': 'Tawana Oberg', 'totalmark': 243.58164706138706, 'average': 81.19388235379569}
{'_id': 'Malisa Jeanes', 'totalmark': 187.97482237036616, 'average': 62.658274123455385}
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{'_id': 'Danika Loeffler', 'totalmark': 177.90923607877596, 'average': 59.30307869292532}
{'_id': 'Chad Rahe', 'totalmark': 181.46853696091893, 'average': 60.48951232030631}
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{'_id': 'Vinnie Auerbach', 'totalmark': 154.92533590812064, 'average': 51.641778636040215}
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{'_id': 'Grady Zemke', 'totalmark': 106.35844585670458, 'average': 35.45281528556819}
{'_id': 'Vina Matsunaga', 'totalmark': 133.82960397641585, 'average': 44.60986799213862}
{'_id': 'Rubie Winton', 'totalmark': 216.40738876682235, 'average': 72.13579625560745}
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{'_id': 'Jenise Mcguffie', 'totalmark': 247.05570912321798, 'average': 82.35190304107266}
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{'_id': 'Kam Senters', 'totalmark': 164.057897124202, 'average': 54.68596570806733}

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{'_id': 'Leonida Lafond', 'totalmark': 98.45768055586619, 'average': 32.8192268519554}
{'_id': 'Devorah Smartt', 'totalmark': 100.39268848940416, 'average': 33.46422949646806}
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{'_id': 'Linnie Weigel', 'totalmark': 154.97337291894834, 'average': 51.65779097298278}
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{'_id': 'Tonisha Games', 'totalmark': 148.83413523189756, 'average': 49.61137841063252}
{'_id': 'Timothy Harrod', 'totalmark': 97.28287057232586, 'average': 32.42762352410862}
{'_id': 'Rae Kohout', 'totalmark': 160.5986170288919, 'average': 53.53287234296397}
```

In [108...
```python
#Create a new collection which consists of students who scored below average and above 40% in all
db = myclient["guvi_project"]
collection = db["Below_average"]
```

In [109...
```python
if isinstance(data,list):
    collection.insert_many(data)
else:
    collection.insert_one(data)
```

In [110...
```python
for i in collection.aggregate([
    {"$score":{"_id":"name"}, "$exam":{'$lt':40}, "$quiz":{'$lt':40}, "$homework":{'$lt':40}}
]):
    print(i)
```

```
---------------------------------------------------------------------------
OperationFailure                         Traceback (most recent call last)
Cell In [110], line 1
----> 1 for i in collection.aggregate([
      2     {"$score":{"_id":"name"}, "$exam":{'$lt':40}, "$quiz":{'$lt':40}, "$homework":{'$lt'
:40}}
      3 ]):
      4     print(i)

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\collection.py:2429, in Colle
ction.aggregate(self, pipeline, session, let, comment, **kwargs)
   2351 """Perform an aggregation using the aggregation framework on this
   2352 collection.
   2353
   (...)
   2425     https://mongodb.com/docs/manual/reference/command/aggregate
   2426 """
   2428 with self.__database.client._tmp_session(session, close=False) as s:
-> 2429     return self._aggregate(
   2430         _CollectionAggregationCommand,
   2431         pipeline,
   2432         CommandCursor,
   2433         session=s,
   2434         explicit_session=session is not None,
   2435         let=let,
   2436         comment=comment,
   2437         **kwargs,
   2438     )

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\_csot.py:105, in apply.<loca
ls>.csot_wrapper(self, *args, **kwargs)
    103         with _TimeoutContext(timeout):
    104             return func(self, *args, **kwargs)
--> 105 return func(self, *args, **kwargs)

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\collection.py:2336, in Colle
ction._aggregate(self, aggregation_command, pipeline, cursor_class, session, explicit_session, l
et, comment, **kwargs)
   2325     kwargs["comment"] = comment
   2326 cmd = aggregation_command(
   2327     self,
   2328     cursor_class,
   (...)
   2333     user_fields={"cursor": {"firstBatch": 1}},
   2334 )
-> 2336 return self.__database.client._retryable_read(
   2337     cmd.get_cursor,
   2338     cmd.get_read_preference(session),
   2339     session,
   2340     retryable=not cmd._performs_write,
   2341 )

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\_csot.py:105, in apply.<loca
ls>.csot_wrapper(self, *args, **kwargs)
    103         with _TimeoutContext(timeout):
    104             return func(self, *args, **kwargs)
--> 105 return func(self, *args, **kwargs)

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\mongo_client.py:1448, in Mon
goClient._retryable_read(self, func, read_pref, session, address, retryable)
   1446         assert last_error is not None
```

```
   1447            raise last_error
-> 1448            return func(session, server, sock_info, read_pref)
   1449    except ServerSelectionTimeoutError:
   1450        if retrying:
   1451            # The application may think the write was never attempted
   1452            # if we raise ServerSelectionTimeoutError on the retry
   1453            # attempt. Raise the original exception instead.

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\aggregation.py:142, in _Aggr
egationCommand.get_cursor(self, session, server, sock_info, read_preference)
    139        write_concern = None
    141    # Run command.
--> 142    result = sock_info.command(
    143        self._database.name,
    144        cmd,
    145        read_preference,
    146        self._target.codec_options,
    147        parse_write_concern_error=True,
    148        read_concern=read_concern,
    149        write_concern=write_concern,
    150        collation=self._collation,
    151        session=session,
    152        client=self._database.client,
    153        user_fields=self._user_fields,
    154    )
    156    if self._result_processor:
    157        self._result_processor(result, sock_info)

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\pool.py:767, in SocketInfo.c
ommand(self, dbname, spec, read_preference, codec_options, check, allowable_errors, read_concer
n, write_concern, parse_write_concern_error, collation, session, client, retryable_write, publis
h_events, user_fields, exhaust_allowed)
    765        self._raise_if_not_writable(unacknowledged)
    766    try:
--> 767        return command(
    768            self,
    769            dbname,
    770            spec,
    771            self.is_mongos,
    772            read_preference,
    773            codec_options,
    774            session,
    775            client,
    776            check,
    777            allowable_errors,
    778            self.address,
    779            listeners,
    780            self.max_bson_size,
    781            read_concern,
    782            parse_write_concern_error=parse_write_concern_error,
    783            collation=collation,
    784            compression_ctx=self.compression_context,
    785            use_op_msg=self.op_msg_enabled,
    786            unacknowledged=unacknowledged,
    787            user_fields=user_fields,
    788            exhaust_allowed=exhaust_allowed,
    789            write_concern=write_concern,
    790        )
    791    except (OperationFailure, NotPrimaryError):
    792        raise

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\network.py:166, in command(s
```

```
ock_info, dbname, spec, is_mongos, read_preference, codec_options, session, client, check, allow
able_errors, address, listeners, max_bson_size, read_concern, parse_write_concern_error, collati
on, compression_ctx, use_op_msg, unacknowledged, user_fields, exhaust_allowed, write_concern)
    164                client._process_response(response_doc, session)
    165            if check:
--> 166            helpers._check_command_response(
    167                    response_doc,
    168                    sock_info.max_wire_version,
    169                    allowable_errors,
    170                    parse_write_concern_error=parse_write_concern_error,
    171                )
    172 except Exception as exc:
    173        if publish:

File ~\PycharmProjects\pythonProject\venv\lib\site-packages\pymongo\helpers.py:181, in _check_co
mmand_response(response, max_wire_version, allowable_errors, parse_write_concern_error)
    178 elif code == 43:
    179        raise CursorNotFound(errmsg, code, response, max_wire_version)
--> 181 raise OperationFailure(errmsg, code, response, max_wire_version)

OperationFailure: A pipeline stage specification object must contain exactly one field., full er
ror: {'ok': 0.0, 'errmsg': 'A pipeline stage specification object must contain exactly one fiel
d.', 'code': 40323, 'codeName': 'Location40323'}
```

```python
In [112... #above 40% in all categories
         db = myclient["guvi_project"]
         collection = db["above_40%"]
         db.students_data.find
         ([
             {"$project":{"_id":"name"}, "$exam":{'$gt':40}, "$quiz":{'$gt':40}, "$homework":{'$gt':40}}
         ])
```

```
Out[112]: [{'$project': {'_id': 'name'},
           '$exam': {'$gt': 40},
           '$quiz': {'$gt': 40},
           '$homework': {'$gt': 40}}]
```

```python
In [ ]: #Create a new collection which consists of students who scored below the fail mark in all the cat
```

```python
In [ ]: #Create a new collection which consists of students who scored above pass mark in all the categor
```

```python
In [54]:
```

```python
In [ ]:
```

```python
In [ ]:
```

```python
In [ ]:
```