Project - big data analysis with IBM Cloud databases

Project Title: big data analysis with IBM Cloud databases

CODING:

```
#need to install
pip install ibm_db pandas
import ibm_db
import pandas as pd
# Replace with your IBM Db2 credentials
db2_credentials = {
    "hostname": "your-db2-hostname",
    "port": 50000,
    "protocol": "TCPIP",
    "database": "your-db-name",
    "uid": "your-username",
    "pwd": "your-password"
}
# Establish a connection to the IBM Db2 database
conn_str = (
    "DATABASE={0};"
    "HOSTNAME={1};"
```

```
    "PORT={2};"
    "PROTOCOL={3};"
    "UID={4};"
    "PWD={5};"
).format(
    db2_credentials["database"],
    db2_credentials["hostname"],
    db2_credentials["port"],
    db2_credentials["protocol"],
    db2_credentials["uid"],
    db2_credentials["pwd"]
)
conn = ibm_db.connect(conn_str, "", "")
if conn:
    print("Connected to the database")
    # SQL query for data retrieval and analysis
    sql_query = "SELECT * FROM your_table"
    # Execute the SQL query
    stmt = ibm_db.exec_immediate(conn, sql_query)
    # Fetch data into a Pandas DataFrame
    data = pd.read_sql(sql_query, conn)
    # Perform big data analysis with Pandas
    # Example: Display the first 10 rows
    print(data.head(10))
```

```
    # Close the database connection
    ibm_db.close(conn)
else:
    print("Unable to connect to the database")
_cos} from IBM COS: {e}')
```