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CAD101 Cloud Application Development - Group 1

Project 7: Data warehousing with IBM cloud Db2 warehouse

Phase 4

Team members

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- **Install required libraries:**

```
pip install ibm_db ibm_db_sa sqlalchemy
```

- **Python script for basic operations:**

```python
import ibm_db
from sqlalchemy import create_engine

# Replace these values with your IBM Cloud Db2 Warehouse credentials
db_credentials = {
    "hostname": "your_db_hostname",
    "port": "your_db_port",
    "username": "your_db_username",
    "password": "your_db_password",
    "database": "your_db_name",
}

# Connect to the database using ibm_db
conn_str = (
    "DATABASE={database};"
    "HOSTNAME={hostname};"
    "PORT={port};"
```

```python
    "PROTOCOL=TCPIP;"
    "UID={username};"
    "PWD={password};".format(**db_credentials)
)

conn = ibm_db.connect(conn_str, "", "")

# Create a table
create_table_sql = """
CREATE TABLE your_table_name (
    column1 datatype1,
    column2 datatype2,
    -- Add more columns as needed
)
"""

stmt = ibm_db.exec_immediate(conn, create_table_sql)

# Insert data into the table
insert_data_sql = """
INSERT INTO your_table_name (column1, column2)
VALUES (value1, value2),
        (value3, value4),
        -- Add more rows as needed
"""
```

```python
stmt = ibm_db.exec_immediate(conn, insert_data_sql)

# Query data from the table
query_sql = "SELECT * FROM your_table_name"
stmt = ibm_db.exec_immediate(conn, query_sql)

# Fetch and print the results
result = ibm_db.fetch_assoc(stmt)
while result:
    print(result)
    result = ibm_db.fetch_assoc(stmt)

# Close the database connection
ibm_db.close(conn)
```