

ASSIGNMENT NO 2

NAME : R.RANJITHA

PROJECT : NUTRITION ASSISTANT APPLICATION

PROJECT ID :PNT2022TMID19500

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1. Create 5 tables in ibm db2 and insert data by using insert query.

QUERY :

INSERT INTO TABLENO1

VALUES

(1771,'ranjitha',30000),

(1772,'dharani',40000),

(1775,'nithya',20000),

(1771,'sheela',50000),

(1787,'pavithra',60000);

IBM Db2 on Cloud

SQL

Filter objects

CRR86006

Tables

TABLEN01

Views

MQTs

Aliases

Nicknames

*Untitled - 1

Beta Classic

```
1 INSERT INTO TABLEN01
2 VALUES
3 (1771, 'ranjitha', 30000),
4 (1772, 'dharani', 40000),
5 (1775, 'nithya', 20000),
6 (1771, 'sheela', 50000),
7 (1787, 'pavithra', 60000);
```

History

Find history

Script	Date	Status	Runtime
Untitled - 1	Sep 28, 2022 9:38:47 AM	✓ 1	0.008 s
INSERT INTO TABLEN01 VALUES (1771, 'ranjitha', 30000), (1772, 'dha...		✓	0.008 s

Activate Windows
Go to Settings to activate Windows.

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

CRR86006.TABLEN01

Back

Export to CSV

EMPID	EMPNAME	SALARY
1771	ranjitha	30000
1771	sheela	50000
1772	dharani	40000
1775	nithya	20000
1787	pavithra	60000

Activate Windows
Go to Settings to activate Windows.

TABLENO2

QUERY :

INSERT INTO TABLENO2

VALUES

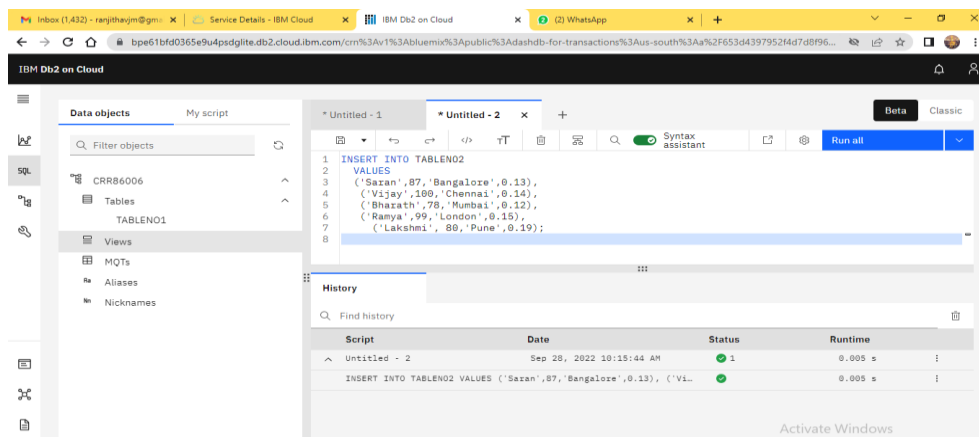
('Saran',87,'Bangalore',0.13),

('Vijay',100,'Chennai',0.14),

('Bharath',78,'Mumbai',0.12),

('Ramya',99,'London',0.15),

('Lakshmi', 80,'Pune',0.19);



The screenshot shows the IBM Db2 on Cloud console displaying the 'TABLENO2' table. The table has four columns: AGENT NAME, AGENT CODE, LOCATION, and COMISSION. The data is as follows:

AGENT NAME	AGENT CODE	LOCATION	COMISSION
Bharath	897	Delhi	0.34
Sanjay	345	Agra	0.92
Saran	567	Bangalore	0.13
Vicky	456	Pune	0.45
Vijay	598	Chennai	0.17

TABLEN03

INSERT INTO TABLEN03

VALUES

('APPLE',3456,180,134,45),

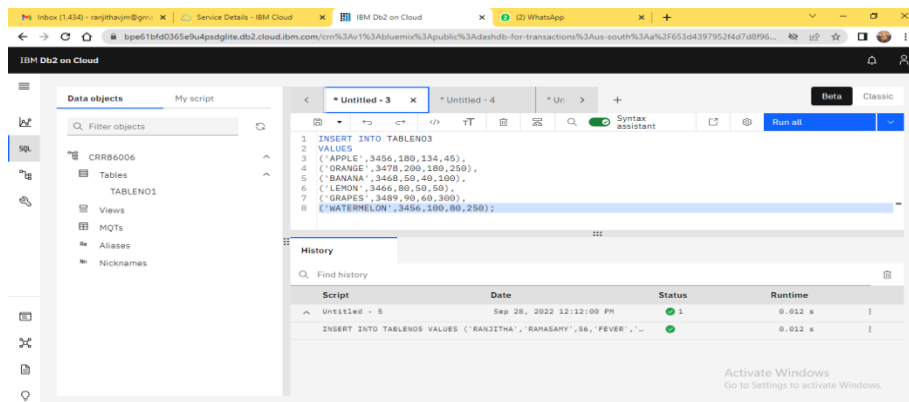
('ORANGE',3478,200,180,250),

('BANANA',3468,50,40,100),

('LEMON',3466,80,50,50),

('GRAPES',3489,90,60,300),

('WATERMELON',3456,100,80,250);



The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The table 'CRR86006.TABLEN03' is displayed. The table has the following columns: PRODUCT NAME, PRODUCT CODE, BUY PRICE, MRP, and STOCK. The data is as follows:

PRODUCT NAME	PRODUCT CODE	BUY PRICE	MRP	STOCK
APPLE	3456	180	134	45
APPLE	3456	180	134	45
BANANA	3468	50	40	100
GRAPES	3489	90	60	300
LEMON	3466	80	50	50
ORANGE	3478	200	180	250
WATERMELON	3456	100	80	250

TABLEN04:

INSERT INTO TABLEN04

VALUES

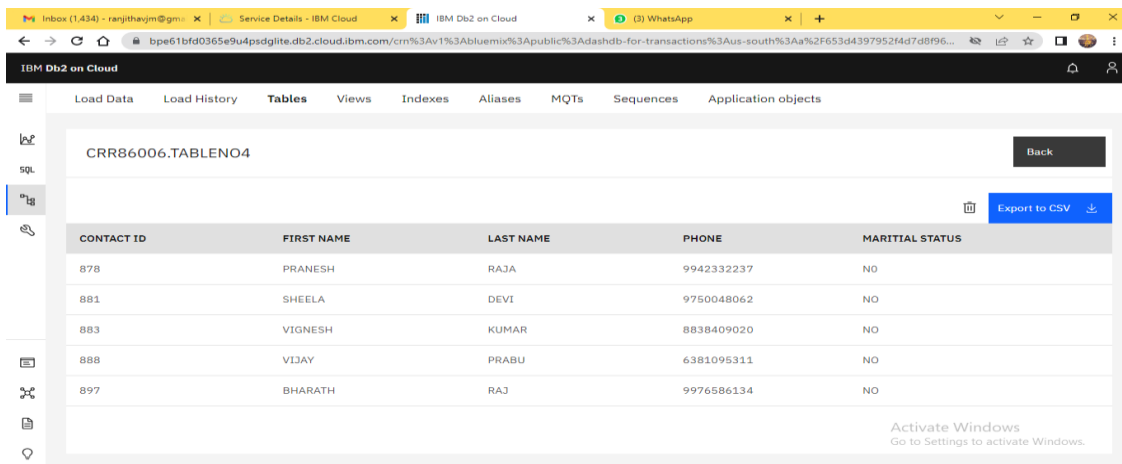
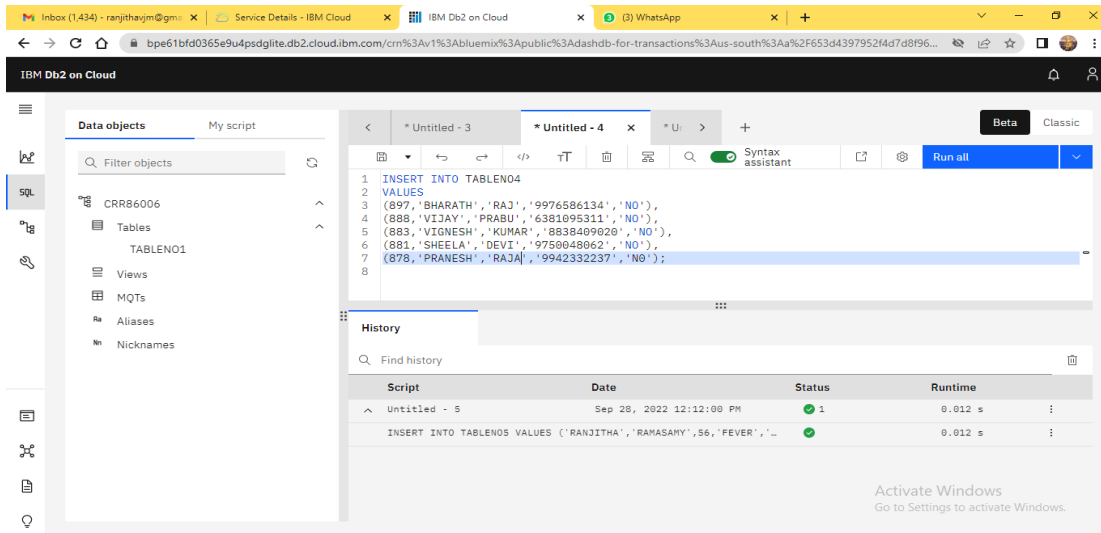
(897,'BHARATH','RAJ','9976586134','NO'),

(888,'VIJAY','PRABU','6381095311','NO'),

(883,'VIGNESH','KUMAR','8838409020','NO'),

(881,'SHEELA','DEVI','9750048062','NO'),

(878,'PRANESH','RAJA','9942332237','NO');



TABLEN05

INSERT INTO TABLEN05

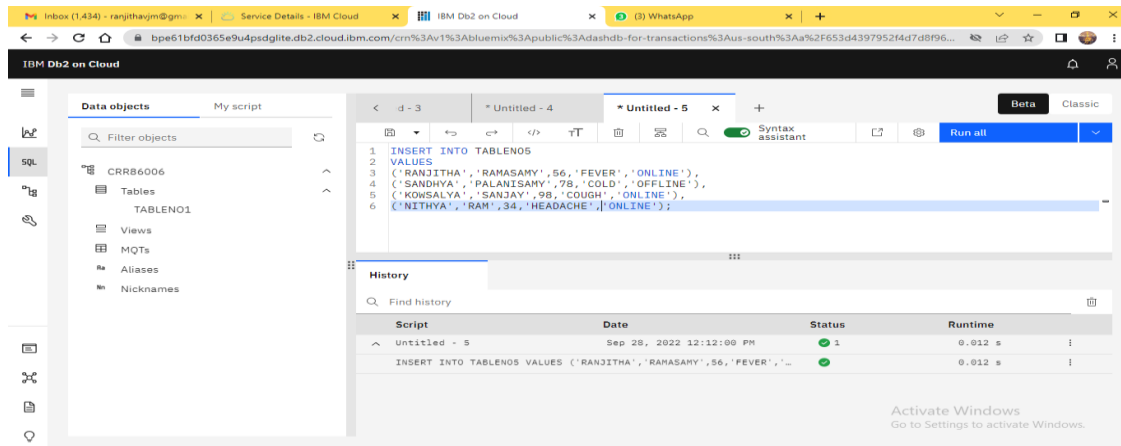
VALUES

('RANJITHA','RAMASAMY',56,'FEVER','ONLINE'),

('SANDHYA','PALANISAMY',78,'COLD','OFFLINE'),

('KOWSALYA','SANJAY',98,'COUGH','ONLINE'),

('NITHYA','RAM',34,'HEADACHE','ONLINE');



The screenshot shows the IBM Db2 on Cloud console interface. The 'Tables' tab is selected, and the table 'CRR86006.TABLEN05' is displayed. The table structure is shown as follows:

PATIENT NAME	DOCTOR NAME	PATIENT ID	DISEASE	PAYMENT
KOWSALYA	SANJAY	98	COUGH	ONLINE
NITHYA	RAM	34	HEADACHE	ONLINE
RANJITHA	RAMASAMY	56	FEVER	ONLINE
SANDHYA	PALANISAMY	78	COLD	OFFLINE

2. Perform UPDATE, DELETE queries in 5 tables:

QUERY:

UPDATE TABLENO1

SET SALARY = 999999

WHERE CITY = 'Chennai';

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The left sidebar displays the 'Data objects' tree with 'CRR86006' expanded, showing 'TABLENO1'. The main editor area contains the following SQL query:

```
1 UPDATE TABLENO1
2 SET SALARY = 999999
3 WHERE CITY = 'Chennai';
```

The 'History' tab at the bottom shows the execution of the query. The table below represents the data in the history log:

Script	Date	Status	Runtime
Untitled - 1	Sep 28, 2022 1:23:04 PM	✓ 1	0.010 s
UPDATE TABLENO1 SET SALARY = 999999 WHERE CITY = 'Chennai'		✓	0.010 s
Untitled - 1	Sep 28, 2022 1:19:35 PM	✗ 1	0.039 s
UPDATE TABLENO1 SET EMP NAME = 'shiva' WHERE SALARY=30000		✗	0.039 s
Untitled - 1	Sep 28, 2022 1:19:02 PM	✗ 1	0.025 s

The screenshot shows the IBM Db2 on Cloud SQL editor interface displaying the data in the 'TABLENO1' table. The table has the following columns: EMP ID, EMP NAME, SALARY, and CITY. The data is as follows:

EMP ID	EMP NAME	SALARY	CITY
1771	Ranjitha	999999	Chennai
1771	Sheela	50000	Pune
1772	Dharani	40000	Bangalore
1775	Nithya	20000	Delhi
1787	Pavithra	60000	Kerala

TABLEN02

UPDATE TABLEN02

SET LOCATION = 'Erode' WHERE COMISSION=0.34 ;

DELETE FROM TABLEN02

WHERE LOCATION="Pune";

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The left sidebar displays the 'Data objects' tree with 'CRR86006' expanded, showing 'Tables' and 'TABLEN01'. The main editor area shows a script with the following SQL statements:

```
1 UPDATE TABLEN02
2 SET LOCATION = 'Erode'
3 WHERE COMISSION=0.34 ;
4
5 DELETE FROM TABLEN02
6 WHERE LOCATION="Pune";
```

The 'History' tab is active, showing a table of script execution history:

Script	Date	Status	Runtime
Untitled - 2	Sep 28, 2022 1:28:53 PM	1 success, 1 failure	0.027 s
UPDATE TABLEN02 SET LOCATION = 'Erode' WHERE COMISSION=0.34		Success	0.011 s
DELETE FROM TABLEN02 WHERE LOCATION="Pune"		Failure	0.016 s
Untitled - 1	Sep 28, 2022 1:23:04 PM	1 success	0.010 s
UPDATE TABLEN01 SET SALARY = 999999 WHERE CITY = 'Chennai'		Success	0.018 s

The screenshot shows the IBM Db2 on Cloud SQL editor interface, displaying the data in the 'CRR86006.TABLEN02' table. The table has the following columns: AGENT NAME, AGENT CODE, LOCATION, and COMISSION. The data is as follows:

AGENT NAME	AGENT CODE	LOCATION	COMISSION
Bharath	897	Erode	0.34
Sanjay	345	Agra	0.92
Saran	567	Bangalore	0.13
Vicky	456	Pune	0.45
Vijay	598	Chennai	0.17

TABLENO3:

UPDATE TABLENO3

SET MRP = 200 WHERE STOCK = 45;

DELETE FROM TABLENO3

WHERE STOCK=300;

The screenshot shows the IBM Db2 on Cloud console. On the left, the 'Data objects' sidebar lists 'CRR86006' and its sub-items: 'Tables' (containing 'TABLENO1'), 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The main area displays a SQL script editor with the following code:

```
1 UPDATE TABLENO3
2 SET MRP = 200 WHERE STOCK = 45;
3
4 DELETE FROM TABLENO3
5 WHERE STOCK=300;
```

Below the script editor is a 'History' table with the following data:

Script	Date	Status	Runtime
Untitled - 3	Sep 28, 2022 1:47:22 PM	1 1	0.015 s
UPDATE TABLENO3 SET MRP = 200 WHERE STOCK = 45			0.009 s
DELETE FROM TABLENO3 WHERE STOCK=300			0.006 s
UPDATE TABLENO3 SET MRP = 200 WHERE STOCK = 45			

The screenshot shows the IBM Db2 on Cloud console displaying the data in the 'TABLENO3' table. The table has the following columns: 'PRODUCT NAME', 'PRODUCT CODE', 'BUY PRICE', 'MRP', and 'STOCK'. The data is as follows:

PRODUCT NAME	PRODUCT CODE	BUY PRICE	MRP	STOCK
APPLE	3456	100	200	45
APPLE	3456	180	200	45
BANANA	3468	50	40	100
LEMON	3466	80	50	50
ORANGE	3478	200	180	250
WATERMELON	3456	100	80	250

TABLENO4:

DELETE FROM TABLENO4

WHERE PHONE = 9976586134

The screenshot shows the IBM Db2 on Cloud console interface. The left sidebar displays a tree view of database objects, including 'CRR86006', 'Tables', 'TABLENO1', 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The main area shows a SQL script editor with the following code:

```
1 DELETE FROM TABLENO4
2 WHERE PHONE = 9976586134
```

Below the script editor, the 'History' tab is active, displaying a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 4	Sep 28, 2022 1:51:26 PM	✓ 1	0.012 s
DELETE FROM TABLENO4 WHERE PHONE = 9976586134		✓	0.012 s
Untitled - 3	Sep 28, 2022 1:47:22 PM	✓ 1 ⚠ 1	0.015 s
UPDATE TABLENO3 SET MRP = 200 WHERE STOCK = 45		✓	0.009 s
DELETE FROM TABLENO3 WHERE STOCK=300		⚠	0.006 s

The screenshot shows the IBM Db2 on Cloud console interface, specifically the 'Tables' tab. The table 'CRR86006.TABLENO4' is selected. The table structure is displayed as follows:

CONTACT ID	FIRST NAME	LAST NAME	PHONE	MARITAL STATUS
878	PRANESH	RAJA	9942332237	NO
881	SHEELA	DEVI	9750048062	NO
883	VIGNESH	KUMAR	8838409020	NO
888	VIJAY	PRABU	6381095311	NO

TABLENO5:

UPDATE TABLENO5

SET PAYMENT='OFFLINE' WHERE DISEASE='COUGH' ;

DELETE FROM TABLENO5

WHERE DISEASE='FEVER';

The screenshot shows the IBM Db2 on Cloud console. On the left, the 'Data objects' sidebar lists 'CRR86006' and 'TABLENO1'. The main area displays a SQL script in 'Untitled - 5' with the following content:

```
1 UPDATE TABLENO5
2 SET PAYMENT='OFFLINE'
3 WHERE DISEASE='COUGH' ;
4
5 DELETE FROM TABLENO5
6 WHERE DISEASE='FEVER';
```

Below the script editor is a 'History' table with the following data:

Script	Date	Status	Runtime
Untitled - 5	Sep 28, 2022 1:54:57 PM	✓ 2	0.023 s
UPDATE TABLENO5 SET PAYMENT='OFFLINE' WHERE DISEASE='COUGH'		✓	0.016 s
DELETE FROM TABLENO5 WHERE DISEASE='FEVER'		✓	0.007 s
Untitled - 4	Sep 28, 2022 1:51:26 PM	✓ 1	0.012 s
DELETE FROM TABLENO4 WHERE PHONE = 9976586134		✓	0.012 s

The screenshot shows the IBM Db2 on Cloud console displaying the data in the 'TABLENO5' table. The table has the following columns: PATIENT NAME, DOCTOR NAME, PATIENT ID, DISEASE, and PAYMENT. The data is as follows:

PATIENT NAME	DOCTOR NAME	PATIENT ID	DISEASE	PAYMENT
KOWSALYA	SANJAY	98	COUGH	OFFLINE
NITHYA	RAM	34	HEADACHE	ONLINE
SANDHYA	PALANISAMY	78	COLD	OFFLINE

3. Load excel comma seperated file to db2.12

The screenshot shows the IBM Db2 on Cloud interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying a table named 'CRR86006.NEWFILE'. The table has 8 columns: 'Attendance for:', 'class-list', 'COLUMN_2', 'COLUMN_3', 'COLUMN_4', 'COLUMN_5', 'COLUMN_6', 'COLUMN_7', and 'COLUMN_8'. The data rows show attendance records for 'Bharath Raj' and 'Somnath Gorai'.

Attendance for:	class-list	COLUMN_2	COLUMN_3	COLUMN_4	COLUMN_5	COLUMN_6	COLUMN_7	COLUMN_8
Bharath Raj	✓			19:51	19:52	2	1	
Date:	2022-05-11	Time:	19:52	Meet ID:	nop-zpcz-zzb			
Help/more info:	https://tinyurl.com/y5peu3nk							
Names	2022-05-11	Email	Comments	Arrival time	Last Seen	# of Checks	Joined	Details
Somnath Gorai	✓			19:51	19:52	2	1	
@ Google Meet Attendance	https://tinyurl.com/y6k2yqts							

The screenshot shows the 'Load details' page in the IBM Db2 on Cloud interface. The page displays the status of the load job, which is 'COMPLETED'. It shows the source file 'My computer file.csv' and the target table 'CRR86006.NEWFILE'. The load job summary indicates that 9 rows were read, 9 rows were loaded, and 0 rows were rejected. The start time was 10/01/2022 1:48:21 PM and the end time was 10/01/2022 1:48:26 PM. The message 'The data load job succeeded. You can now work with your data.' is displayed. The 'Errors' section shows 'No errors'.

Load details

My computer file.csv Target CRR86006.NEWFILE

Status Settings

COMPLETED

9 Rows read 9 Rows loaded 0 Rows rejected

Start time 10/01/2022 1:48:21 PM
End time 10/01/2022 1:48:26 PM

The data load job succeeded.
You can now work with your data.

Errors Warnings

No errors

4. Connect python to db2.

CODE

```
import ibm_db

hostname = 'b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'

uid = 'crr86006'

pwd = 'LL5uvdRk05KVGijH'

driver = "{IBM DB2 ODBC DRIVER}"

db = 'bludb'

port = '31249'

protocol = 'TCPIP'

cert = 'RanjithaCertificate.crt'

dsn = (
    "DATABASE = {0};"
    "HOSTNAME = {1};"
    "PORT = {2};"
    "UID = {3};"
    "SECURITY = SSL;"
    "SSIServerCertificate = {4};"
    "PWD = {5};"
).format(db, hostname, port, uid, cert, pwd)
```

```
print(dsn)
```

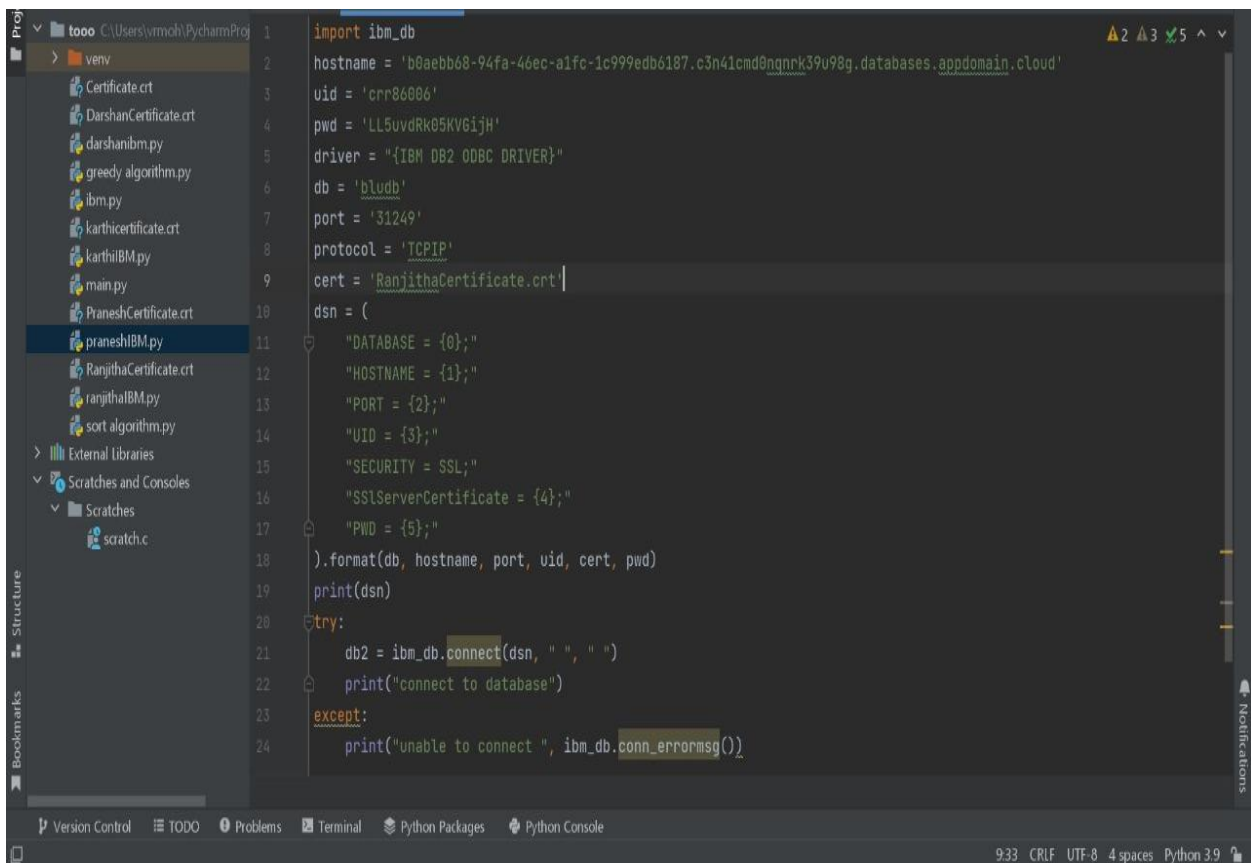
```
try:
```

```
    db2 = ibm_db.connect(dsn, " ", " ")
```

```
    print("connect to database")
```

```
except:
```

```
    print("unable to connect ", ibm_db.conn_errormsg())
```



```
1 import ibm_db
2 hostname = 'b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'
3 uid = 'crr86006'
4 pwd = 'LL5uvdRk05KV61jH'
5 driver = "{IBM DB2 ODBC DRIVER}"
6 db = 'blddb'
7 port = '31249'
8 protocol = 'TCP/IP'
9 cert = 'RanjithaCertificate.crt'
10 dsn = (
11     "DATABASE = {0};"
12     "HOSTNAME = {1};"
13     "PORT = {2};"
14     "UID = {3};"
15     "SECURITY = SSL;"
16     "SSLServerCertificate = {4};"
17     "PWD = {5};"
18 ).format(db, hostname, port, uid, cert, pwd)
19 print(dsn)
20 try:
21     db2 = ibm_db.connect(dsn, " ", " ")
22     print("connect to database")
23 except:
24     print("unable to connect ", ibm_db.conn_errormsg())
```

9:33 CRLF UTF-8 4 spaces Python 3.9

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vrroh>cd PycharmProjects\tooo

C:\Users\vrroh\PycharmProjects\tooo>python ranjithaIBM.py
DATABASE = bludb;HOSTNAME = b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnk39u98g.databases.appdomain.cloud;PORT = 3
1249;UID = crr86006;SECURITY = SSL;SSLServerCertificate = RanjithaCertificate.crt;PWD = LL5uvdRk05KVGijH;
connect to database

C:\Users\vrroh\PycharmProjects\tooo>
```

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