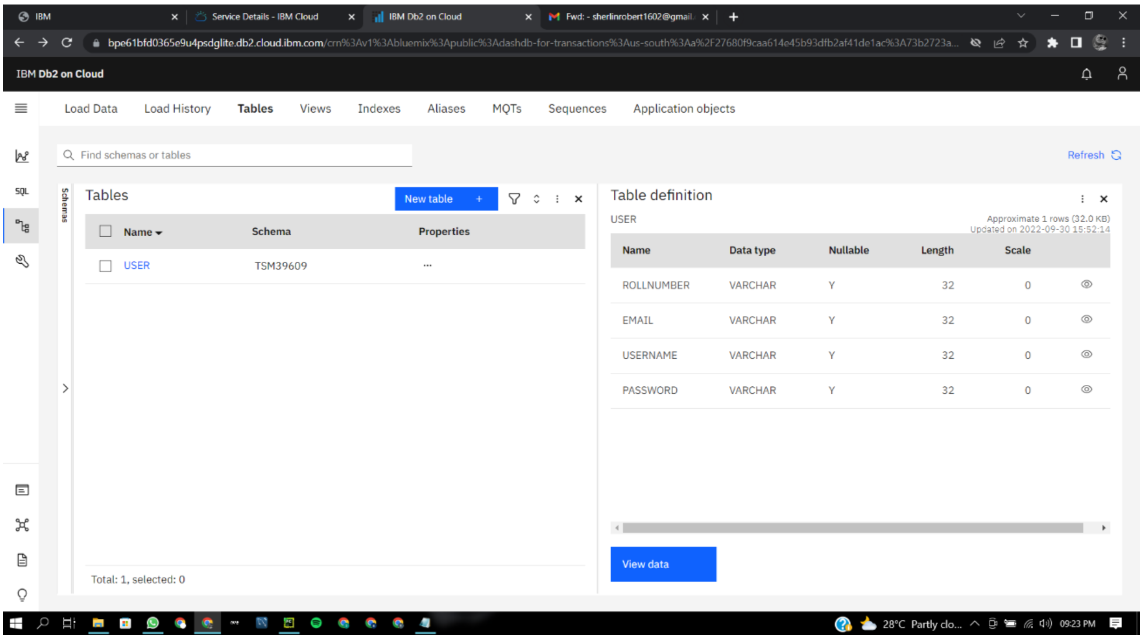
IBM ASSIGNMENT – 2

1. To create a user table with username, email, password, roll number


IBM
Service Details - IBM Cloud
IBM Db2 on Cloud
Fwd: - sherlinrobert1602@gmail...
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F27680f9caa614e45b93dfb2af41de1ac%3A73b2723a...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Find schemas or tables
Refresh
Schemas
Tables
New table +
View data
28°C Partly clo...
09:23 PM

Tables

□	Name	Schema	Properties
□	USER	TSM39609	···

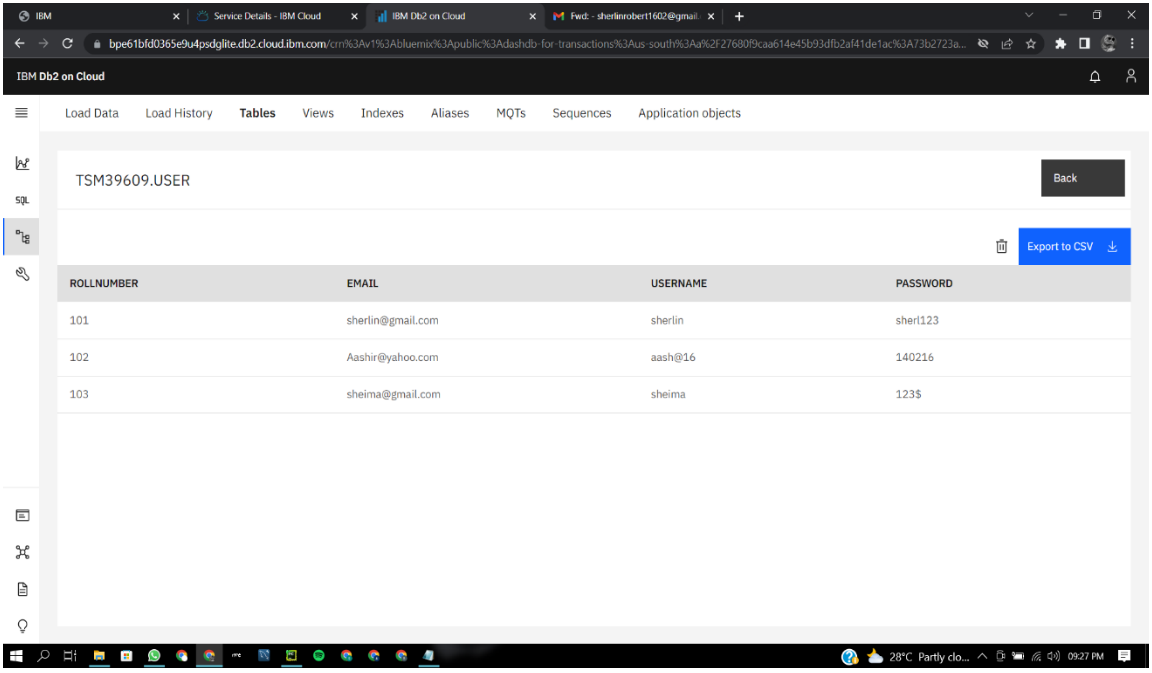
Total: 1, selected: 0

Table definition

USER

Approximate 1 rows (32.0 KB)
Updated on 2022-09-30 15:52:14

Name	Data type	Nullable	Length	Scale
ROLLNUMBER	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

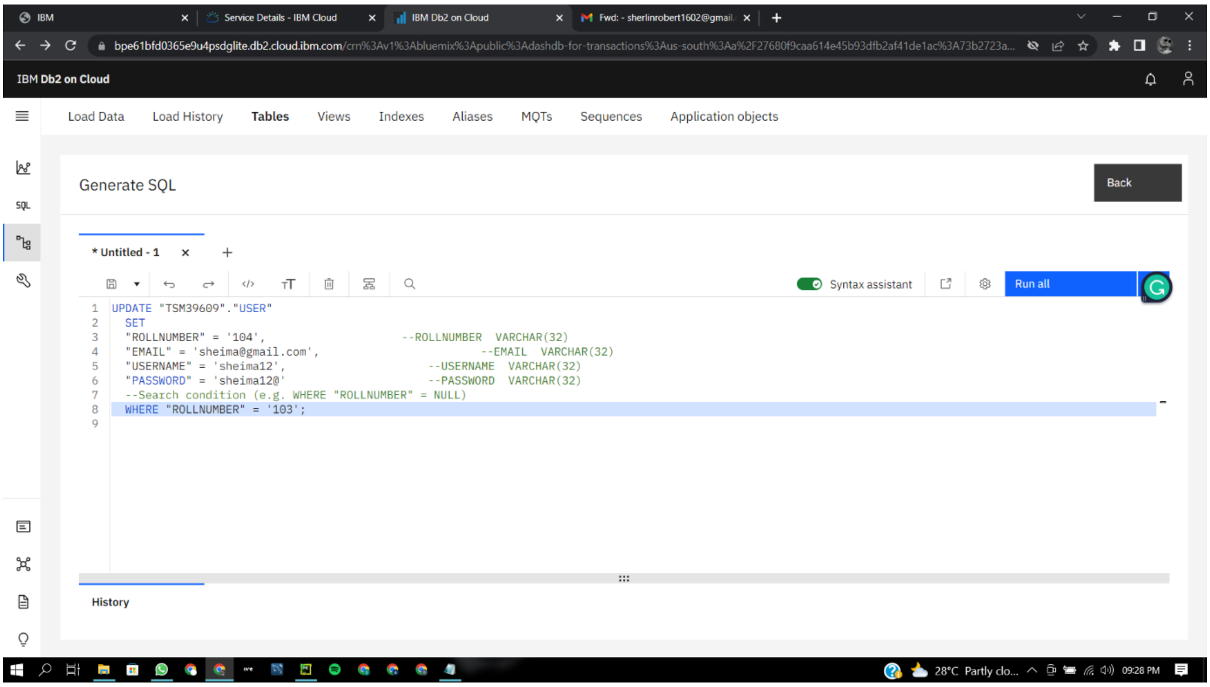

IBM
Service Details - IBM Cloud
IBM Db2 on Cloud
Fwd: - sherlinrobert1602@gmail...
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F27680f9caa614e45b93dfb2af41de1ac%3A73b2723a...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Back
Export to CSV
28°C Partly clo...
09:27 PM

TSM39609.USER

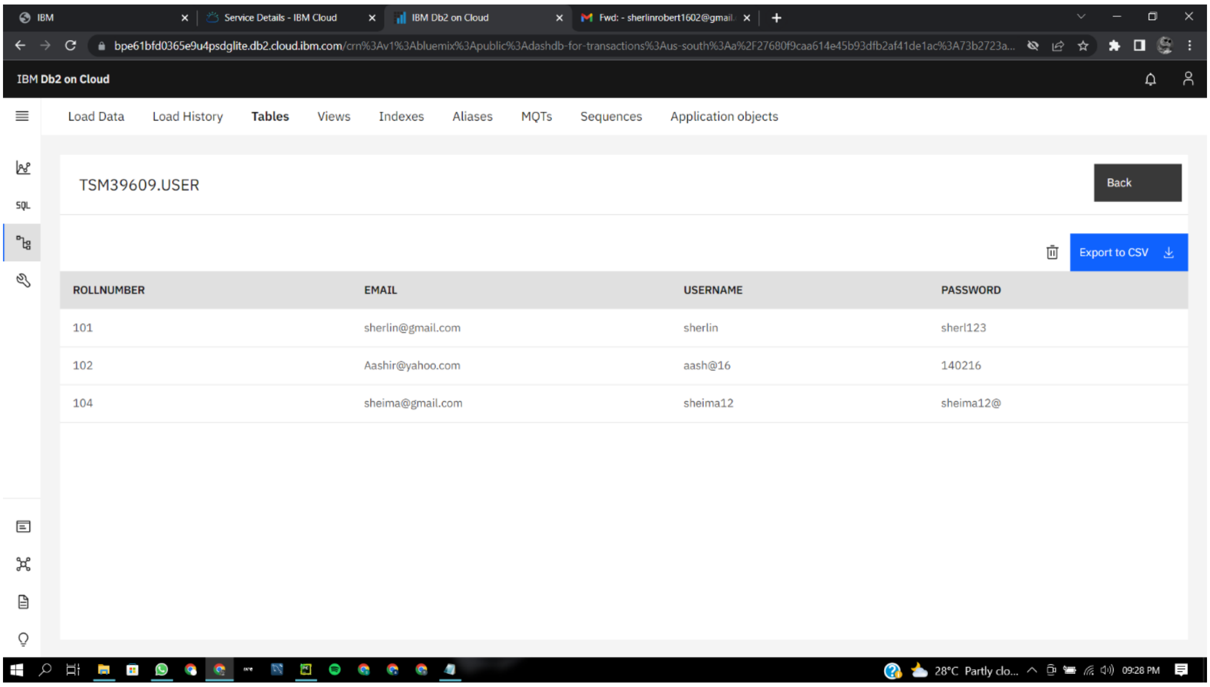
ROLLNUMBER	EMAIL	USERNAME	PASSWORD
101	sherlin@gmail.com	sherlin	sherl123
102	Aashir@yahoo.com	aash@16	140216
103	sheima@gmail.com	sheima	123$

2. To perform UPDATE, DELETE queries with the user table

UPDATE QUERY AND RESULTS



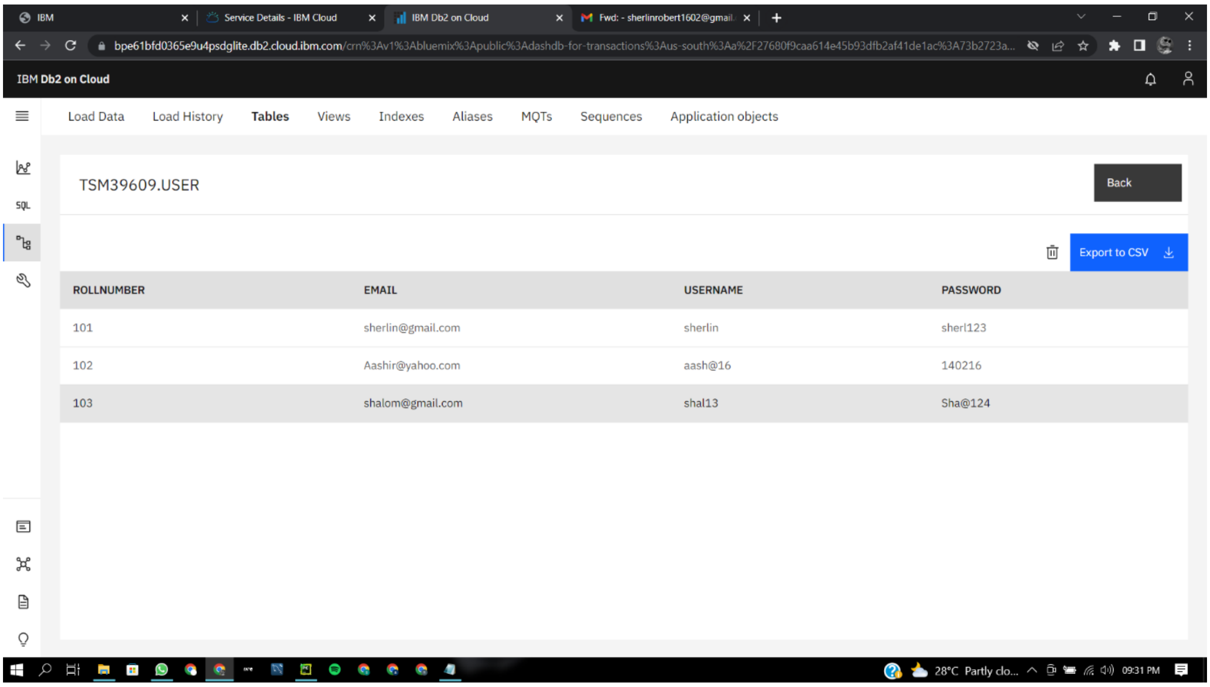
```
UPDATE "TSM39609"."USER"
  SET
  "ROLLNUMBER" = '104',                     --ROLLNUMBER  VARCHAR(32)
  "EMAIL" = 'sheima@gmail.com',                   --EMAIL  VARCHAR(32)
  "USERNAME" = 'sheima12',                      --USERNAME  VARCHAR(32)
  "PASSWORD" = 'sheima12@'                      --PASSWORD  VARCHAR(32)
  --Search condition (e.g. WHERE "ROLLNUMBER" = NULL)
  WHERE "ROLLNUMBER" = '103';
```



TSM39609.USER

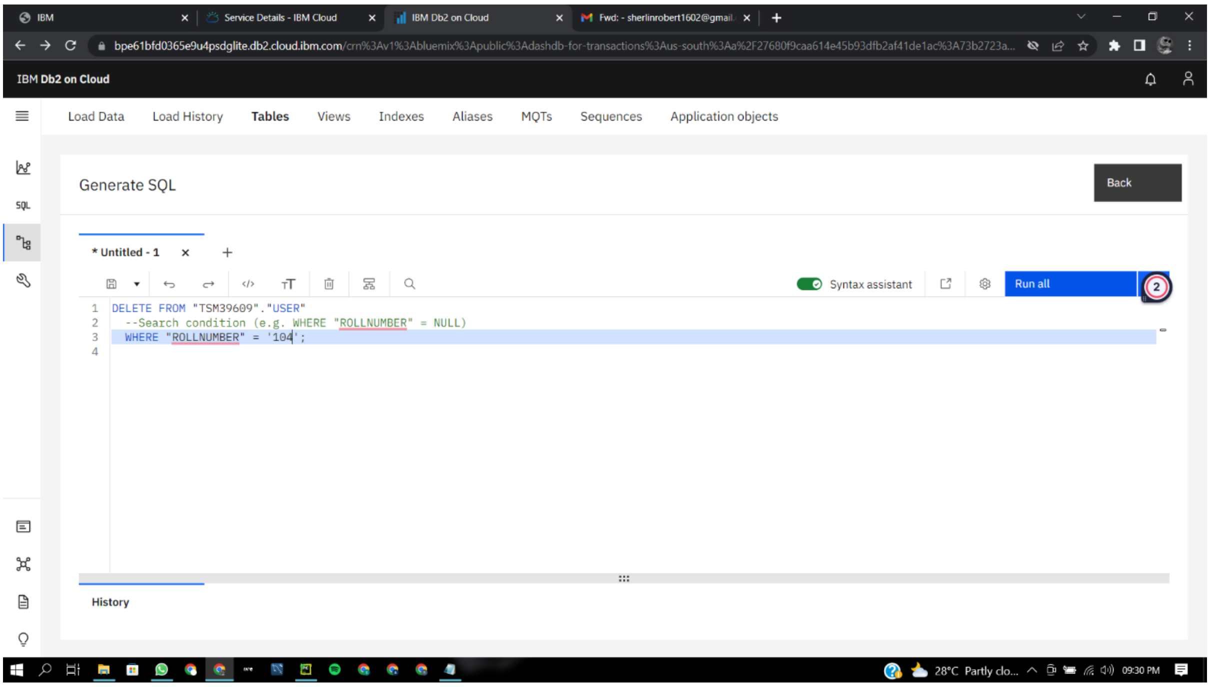
ROLLNUMBER	EMAIL	USERNAME	PASSWORD
101	sherlin@gmail.com	sherlin	sherl123
102	Aashir@yahoo.com	aash@16	140216
104	sheima@gmail.com	sheima12	sheima12@

DELETE QUERY AND RESULTS



TSM39609.USER

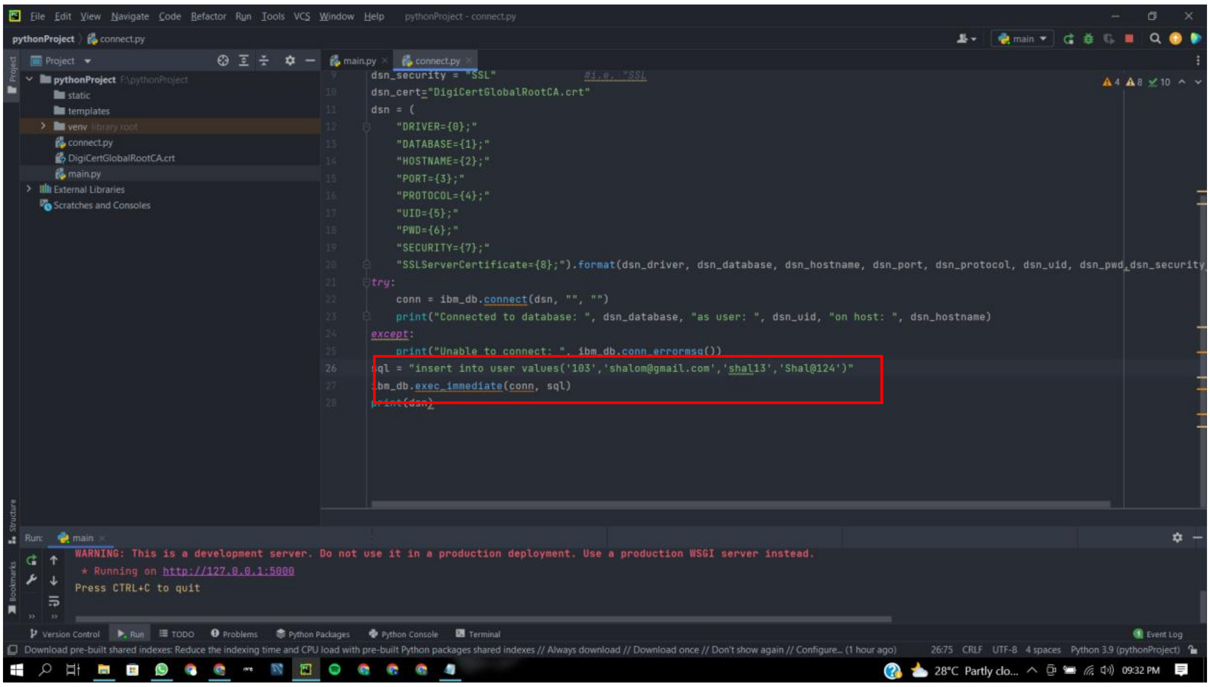
ROLLNUMBER	EMAIL	USERNAME	PASSWORD
101	sherlin@gmail.com	sherlin	sherl123
102	Aashir@yahoo.com	aash@16	140216
103	shalom@gmail.com	shal13	Sha@124



Generate SQL

```
DELETE FROM "TSM39609"."USER"
  --Search condition (e.g. WHERE "ROLLNUMBER" = NULL)
  WHERE "ROLLNUMBER" = '104';
```

3. To connect python code to DB2



```
dsn_security = "SSL"              #i.e. "SSL
dsn_cert="DigiCertGlobalRootCA.crt"
dsn = (
    "DRIVER={0};"
    "DATABASE={1};"
    "HOSTNAME={2};"
    "PORT={3};"
    "PROTOCOL={4};"
    "UID={5};"
    "PWD={6};"
    "SECURITY={7};"
    "SSLServerCertificate={8};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_security,
try:
    conn = ibm_db.connect(dsn, "", "")
    print("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ", dsn_hostname)
except:
    print("Unable to connect: ", ibm_db.conn_errormsg())
sql = "insert into user values('103','shalom@gmail.com','shal13','Shal@124')"
ibm_db.exec_immediate(conn, sql)
print(dsn)
```

```
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (1 hour ago)

4. To create a flask application with a registration page, login page, and welcome page.

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