## **GCP** terminal local:

## **DDL Commands:**

```
-- User_Login_Table

CREATE TABLE User_Login_Table (

NetId VARCHAR(10) PRIMARY KEY,
email VARCHAR(255),
password VARCHAR(255)
);

-- Courses_Table

CREATE TABLE Courses_Table (

CRN INT PRIMARY KEY,
Semester VARCHAR(20),
Title VARCHAR(255),
Department VARCHAR(255),
Credits INT,
BuildingName VARCHAR(255),
Time VARCHAR(255),
```

```
Day VARCHAR(255),
 Instructor VARCHAR(255),
 GenEdID INT,
 avgGPA REAL,
 Rating INT,
 FOREIGN KEY (BuildingName) REFERENCES Map_Table(BuildingName),
 FOREIGN KEY (GenEdID) REFERENCES GenEd_Table(GenEdID)
);
-- GenEd_Table for looking up gened reqs
CREATE TABLE GenEd_Table (
GenEdID INT PRIMARY KEY,
GenEdGroup VARCHAR(255)
);
-- Map_Table for using with bingMaps API
CREATE TABLE Map_Table (
 BuildingName VARCHAR(255) PRIMARY KEY,
Address VARCHAR(255),
 RoomNumber INT,
 Latitudes DECIMAL(9,6),
 Longitudes DECIMAL(9,6)
);
```

## **Row COUNT:**

```
mysql> SELECT count(CRN) FROM new_schema.courses_table;
+-----+
| count(CRN) |
+-----+
| 1103 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT COUNT(NetId) from user_login_table;

+-----+

| COUNT(NetId) |

+-----+

| 1005 |

+-----+

1 row in set (0.00 sec)
```

## **Advanced Query Results:**

```
mysql> SELECT count(CRN) from courses_table WHERE avgGPA > 3.5 GROUP BY Department;
| count(CRN) |
          34 |
          20 |
          28 |
          18 |
          28 |
          20 |
          22 |
          32 |
          22 |
          24 |
          21
          20
          20
          19
          29
          34
          31 |
          29
          27
          16 |
          29 |
          19 |
          22
          30 |
          24 |
           9 |
          10 |
           4 |
28 rows in set (0.00 sec)
```