

**KULLIYYAH OF INFORMATION & COMMUNICATION TECHNOLOGY**

INFO 2103- Database Programing

SEMESTER 2, 2018/19

SECTION-4

**Project Task**

TOPIC: Student Database Management Service

**PREPARED BY:**

|  |  |
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**DR Shima Abdullah**

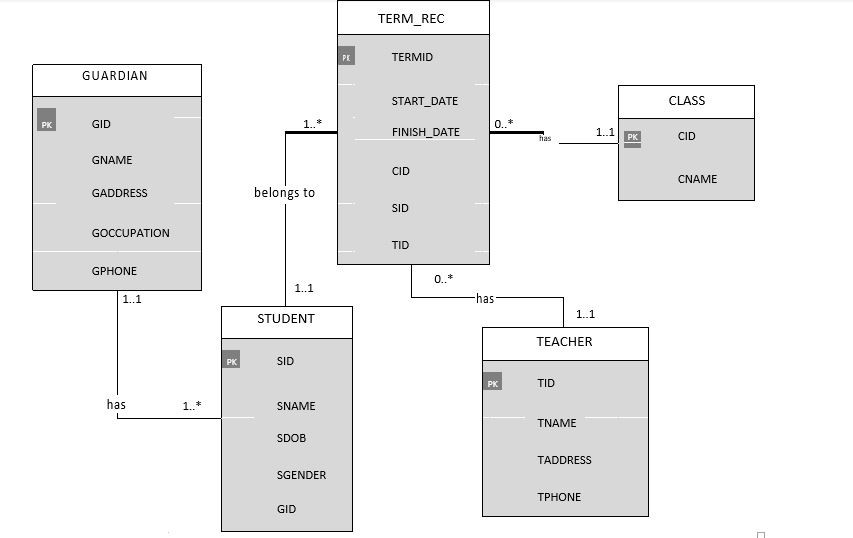
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**Student Database Management system**

**2.0 Introduction**

We are going to start working on a project to automate the operation of student. We are calling the system as student database management system. Currently all the operation is done manually from Guardian,Student,Class Rec,teacher and term record checking and assigning work . So we are trying to make it easier for people to entry for then people that will help them easily entry and arrange the work.



**3.0 DATA DICTIONARY FOR ER DIAGRAM**

**Guardian**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Size** | **NULL** |
| GID (PK) | Number | 3 | not |
| GADDRESS | Varchar2 | 25 | not |
| GOCCUPATION | Varchar2 | 15 | yes |
| GPHONE | Varchar 2 | 15 | not |

**Student.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Size** | **NULL** |
| SID (PK) | Number | 3 | not |
| SName | Varchar2 | 25 | not |
| SDOB | date |  | Not |
| S | Char | 1 | Not |
| GID(FK) | Varchar 2 | 15 | not |

**Class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Size** | **NULL** |
| **CID(PK)** | **Number** | **3** | **not** |
| **CName** | **Varchar2** | **15** | **not** |

**Teacher**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Size** | **NULL** |
| TID (PK) | Number | 3 | not |
| TName | Varchar2 | 20 | Not |
| TAddress | Varchar2 | 25 |  |
| TPhone | Varchar2 | 15 | not |

**Term record**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Size** | **NULL** |
| Termid (PK) | Number | 3 | Not |
| Startdate | Date |  | Not |
| FinishDate | Date |  | Not |
| CID (FK) | Number | 3 | not |
| SID(FK) | Number | 5 | not |
| TID(FK) | Number | 5 | not |

**4.0 PHYSICAL DATABASE DESIGN**

Create and drop table

DROP TABLE term\_rec;

DROP TABLE teacher;

DROP TABLE student;

DROP TABLE class;

DROP TABLE guardian;

CREATE TABLE guardian

(

gid number(3) primary key,

gname varchar2(25) not null,

gaddress varchar2(35),

gOccupation varchar2(15),

gphone varchar2(15) not null

);

CREATE TABLE student

(

sid number(3) primary key,

sname varchar2(25) not null,

sdob date not null,

sgender char(1) not null,

gid number(3) not null references guardian(gid)

);

CREATE TABLE class

(

cid number(3) primary key,

cname varchar2(15) not null

);

CREATE TABLE teacher

(

tid number(3) primary key,

tname varchar2(20) not null,

taddress varchar2(25),

tphone varchar2(15) not null

);

CREATE TABLE term\_rec

(

termid number(3) primary key,

start\_date date not null,

finish\_date date not null,

cid number(3) not null references class(cid),

sid number(3) not null references student(sid),

tid number(3) not null references teacher(tid)

);

**5.0 SCRIPT TO POPULATE TABLE**  
INSERT INTO GUARDIAN

VALUES( 11, 'Lokman Hakim', '22 jalan gombak', 'Teacher', '74567428' );

INSERT INTO GUARDIAN

VALUES( 12, 'Rajman', NULL, 'Accountant', '92947392');

INSERT INTO GUARDIAN

VALUES( 13, 'Jiya Hamid', NULL, 'Business', '232539');

INSERT INTO GUARDIAN

VALUES(14, 'Hammar Amzan', 'pv2 Taman Melati', 'Project Manager', '92623874');

INSERT INTO GUARDIAN

VALUES( 15, 'Ashraf', '1Ah seri Gombak', NULL, '872364892');

INSERT INTO GUARDIAN

VALUES( 16, 'Lincklon', NULL, NULL, '009343423');

INSERT INTO GUARDIAN

VALUES( 17, 'Roy Hudgson', 'Kuta Damansara', 'Doctor', '0294518');

INSERT INTO GUARDIAN

VALUES( 18, 'Jin Tango', 'Jalan Ipoh', NULL, '09098787');

INSERT INTO GUARDIAN

VALUES( 19, 'Abraham Mia', NULL, NULL, '55664747');

INSERT INTO GUARDIAN

VALUES( 20, 'Simon Mahmood', 'Mahalla Siddiq', 'Writer', '082749264');

INSERT INTO GUARDIAN

VALUES( 21, 'Miskat', NULL, NULL, '093628823');

INSERT INTO GUARDIAN

VALUES( 22, 'Sam Sariful', 'Sri Petalinjaya Condo 5', 'Author', '09748211');

INSERT INTO GUARDIAN

VALUES( 23, 'Rokko Hunt', NULL, 'Advertiser', '082478293');

INSERT INTO GUARDIAN

VALUES( 24, 'Islam Toriq', NULL, 'Cartonist', '029745284');

INSERT INTO GUARDIAN

VALUES( 25, 'Zakia Iyar', '33BS Subastian Garden', 'Nurse', '98453632');

INSERT INTO STUDENT

VALUES(31, 'Mohesh Mia', TO\_DATE('11-JAN-01'), 'M', 23 );

INSERT INTO STUDENT

VALUES(32, 'Rakib Hasan', TO\_DATE('21-JAN-02'), 'M', 24 );

INSERT INTO STUDENT

VALUES( 33, 'Iraisha', TO\_DATE('15-FEB-01'), 'F', 25);

INSERT INTO STUDENT

VALUES(34, 'Hana Mazhar', TO\_DATE('31-JUL-01') , 'F', 15 );

INSERT INTO STUDENT

VALUES( 35, 'Mohammad', TO\_DATE('11-DEC-99'), 'M', 16);

INSERT INTO STUDENT

VALUES( 36, 'Stuart Broad', TO\_DATE('11-AUG-96'), 'M', 17);

INSERT INTO STUDENT

VALUES( 37, 'Emma Watson', TO\_DATE('11-NOV-98'), 'F', 18);

INSERT INTO STUDENT

VALUES( 38, 'Habiba Khan', TO\_DATE('11-SEP-95'), 'F', 19);

INSERT INTO STUDENT

VALUES( 39, 'Jasim Mia', TO\_DATE('01-JAN-96'), 'M', 20);

INSERT INTO STUDENT

VALUES( 40, 'Farhanna', TO\_DATE('09-AUG-99'), 'F', 21);

INSERT INTO STUDENT

VALUES( 41, 'Mahin Maisa', TO\_DATE('18-DEC-94'), 'F', 22);

INSERT INTO STUDENT

VALUES( 42, 'Rajon', TO\_DATE('20-JAN-01'), 'M', 11);

INSERT INTO STUDENT

VALUES( 43, 'Jony Kibria', TO\_DATE('23-DEC-92'), 'M', 12);

INSERT INTO STUDENT

VALUES( 44, 'Roni Darmi', TO\_DATE('20-DEC-95'), 'M', 13);

INSERT INTO STUDENT

VALUES( 45, 'Noyon Neon', TO\_DATE('13-DEC-97'), 'M', 14);

INSERT INTO STUDENT

VALUES( 46, 'Tasnia Naina', TO\_DATE('23-MAR-99'), 'F', 19);

INSERT INTO CLASS VALUES(44, 'Physics');

INSERT INTO CLASS VALUES(55, 'History22' );

INSERT INTO CLASS VALUES(22, 'Math2' );

INSERT INTO CLASS VALUES(11, 'Math1' );

INSERT INTO CLASS VALUES(01, 'Socilogy' );

INSERT INTO CLASS VALUES(88, 'Database 02');

INSERT INTO CLASS VALUES(66, 'English Writing');

INSERT INTO CLASS VALUES(101, 'English' );

INSERT INTO CLASS VALUES(69, 'ICT4M');

INSERT INTO CLASS VALUES(99, 'Islamic History');

INSERT INTO CLASS VALUES(17, 'Biology');

INSERT INTO CLASS VALUES(33, 'Chemistry01' );

INSERT INTO CLASS VALUES(30, 'Chemistry02');

INSERT INTO CLASS VALUES(545, 'History02');

INSERT INTO CLASS VALUES(123, 'Financial Math');

INSERT INTO CLASS VALUES(144, 'Advance Math');

INSERT INTO CLASS VALUES(185,'English Debate');

INSERT INTO TEACHER VALUES(201, 'Mariam Moin', NULL, '082472746');

INSERT INTO TEACHER VALUES(202, 'Moin Uddin', NULL, '1983732');

INSERT INTO TEACHER VALUES(203, 'Miraz Mia', NULL, '08814769');

INSERT INTO TEACHER VALUES(222, 'Salma Hayet', '0G2-66 Mutiara Gombak', '9872734');

INSERT INTO TEACHER VALUES(777, 'Sohiala Jorine', 'Sri Rampai 45SD', '92865762');

INSERT INTO TEACHER VALUES(452, 'Nurul Amin', NULL, '4745777');

INSERT INTO TEACHER VALUES(651, 'Imran Razi', 'Kampung Baru Plaza', '886767');

INSERT INTO TEACHER VALUES(555, 'Faridah Kasim', NULL, '7775555');

INSERT INTO TEACHER VALUES(675, 'Alex Hermain', 'seiman Jinga 22A', '00999087');

INSERT INTO TEACHER VALUES(678, 'Dua Lipa', NULL, '23233345');

INSERT INTO TEACHER VALUES(812, 'Raxi Hasimi', NULL, '011117879');

INSERT INTO TEACHER VALUES(398, 'Juka Adam', NULL, '452223453');

INSERT INTO TEACHER VALUES(842, 'Abdu Latif', 'Cyberjaya S89A', '0909111234');

INSERT INTO TEACHER VALUES(89, 'Rifath Biku', 'Taman Melawai 22', '92784247' );

INSERT INTO TEACHER VALUES(438, 'Mohammad Akram', 'Lake Tuba Residence 22A', '011145893');

INSERT INTO TERM\_REC VALUES(1, TO\_DATE('01-JAN-01') , TO\_DATE('31-MAY-01'),17,45,438);

INSERT INTO TERM\_REC VALUES(2, TO\_DATE('15-JUL-01') , TO\_DATE('28-NOV-01'),22,44,398);

INSERT INTO TERM\_REC VALUES(3, TO\_DATE('01-JAN-02') , TO\_DATE('31-MAY-02'),44,43, 89);

INSERT INTO TERM\_REC VALUES(4, TO\_DATE('15-JUL-02') , TO\_DATE('28-NOV-02'),545,42,842);

INSERT INTO TERM\_REC VALUES(5, TO\_DATE('01-JAN-03') , TO\_DATE('31-MAY-03'),99,41, 812);

INSERT INTO TERM\_REC VALUES(6, TO\_DATE('15-JUL-03') , TO\_DATE('28-NOV-03'),69,46,678);

INSERT INTO TERM\_REC VALUES(7, TO\_DATE('01-JAN-04') , TO\_DATE('31-MAY-04'),88,40, 675);

INSERT INTO TERM\_REC VALUES(8, TO\_DATE('15-JUL-04') , TO\_DATE('28-NOV-04'),101,39,555);

INSERT INTO TERM\_REC VALUES(9, TO\_DATE('01-JAN-05') , TO\_DATE('31-MAY-05'),17,38, 452);

INSERT INTO TERM\_REC VALUES(10, TO\_DATE('15-JUL-05'), TO\_DATE('28-NOV-05'),55,37,651);

INSERT INTO TERM\_REC VALUES(11, TO\_DATE('01-JAN-06') , TO\_DATE('31-MAY-06'),11,36,777);

INSERT INTO TERM\_REC VALUES(12, TO\_DATE('15-JUL-06') , TO\_DATE('28-NOV-06'),66,35,203);

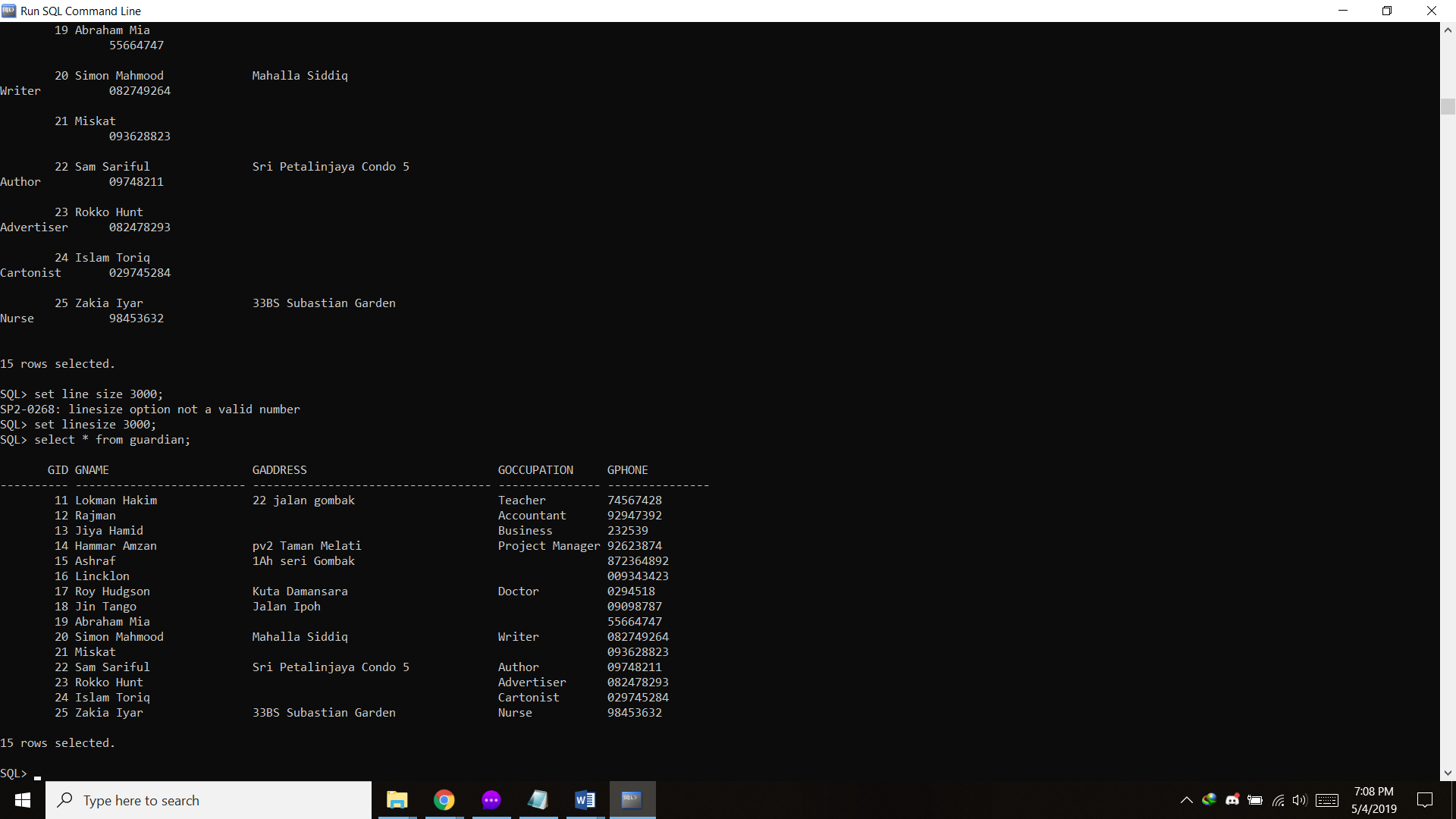
INSERT INTO TERM\_REC VALUES(13, TO\_DATE('01-JAN-07') , TO\_DATE('31-MAY-07'),01,34,202);

INSERT INTO TERM\_REC VALUES(14, TO\_DATE('15-JUL-07') , TO\_DATE('28-NOV-07'),144,33,201);

INSERT INTO TERM\_REC VALUES(15, TO\_DATE('13-FEB-09') , TO\_DATE('03-MAY-09'),185,31,222);

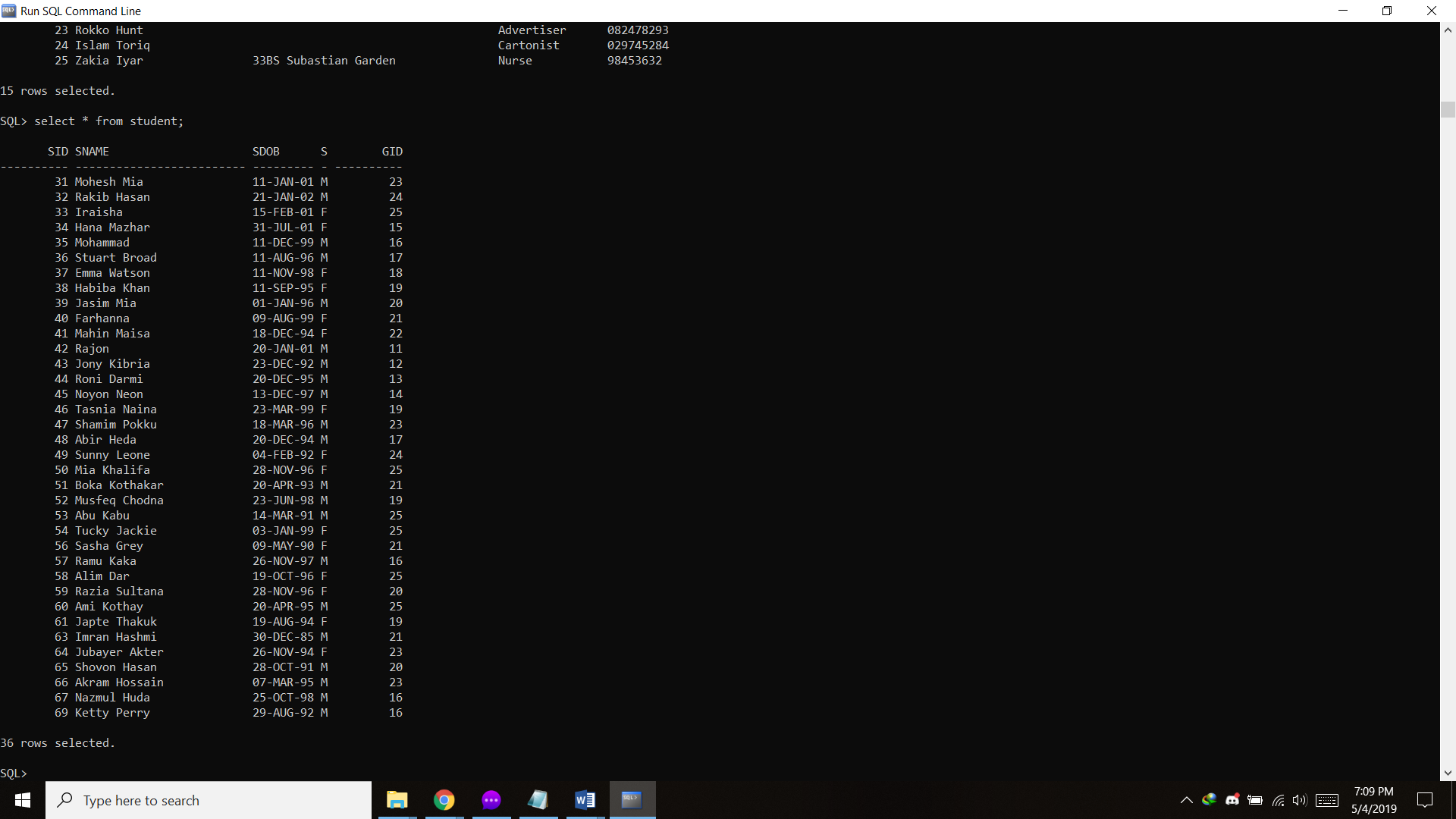
**Output :**

Guardian :



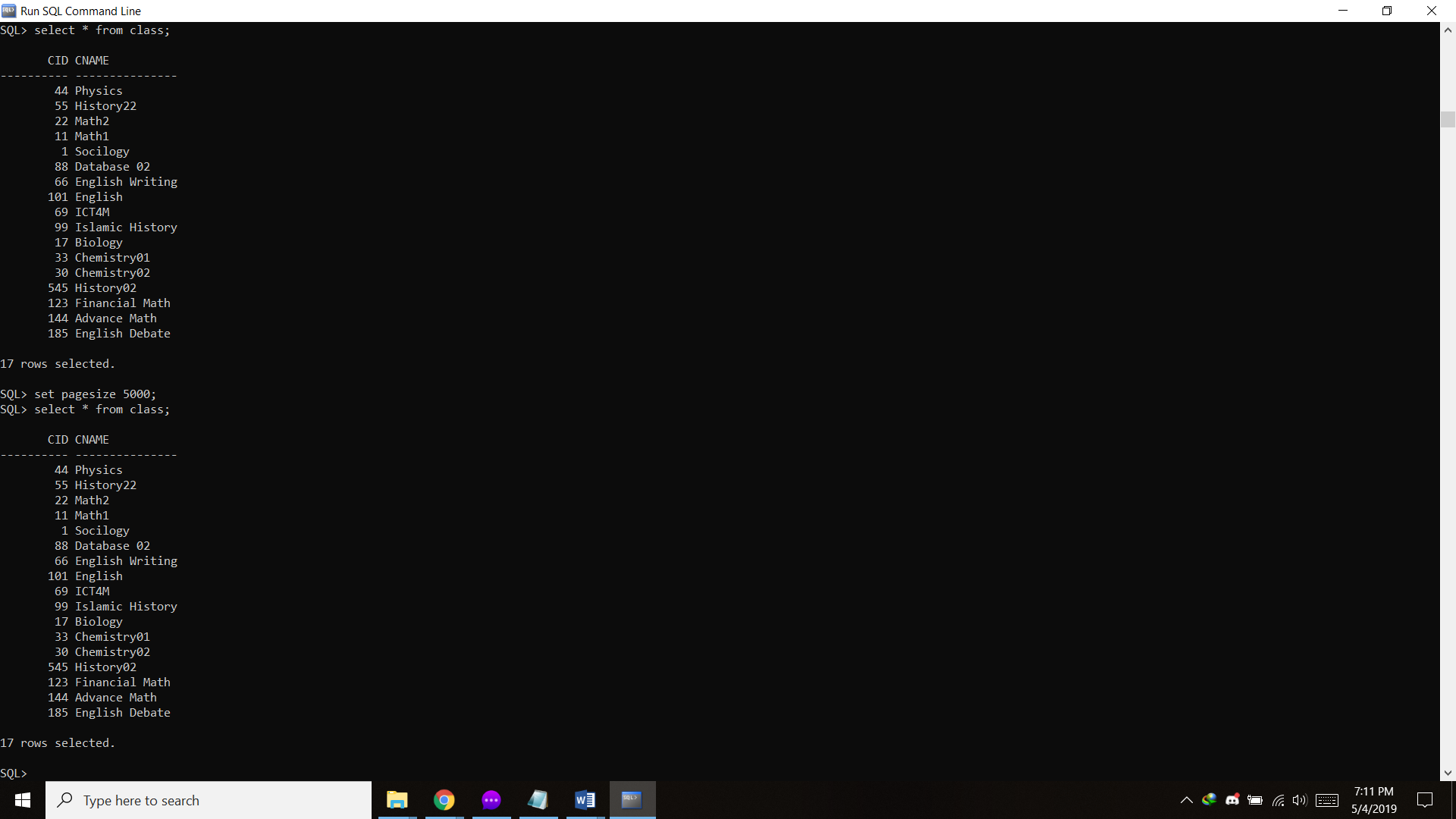
**Student :**

SQL> select \* from student;



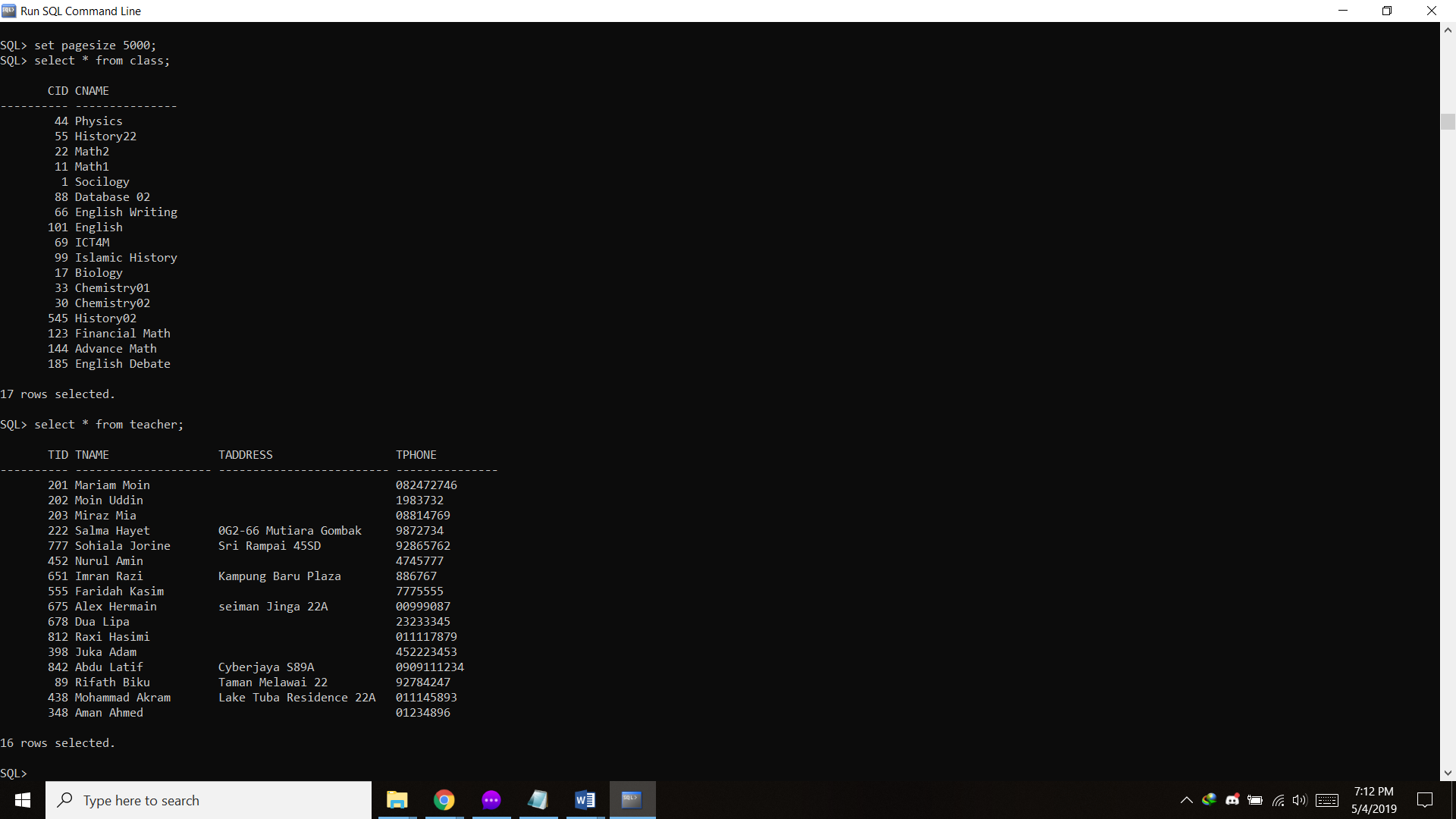
Class :

SQL> select \* from class;



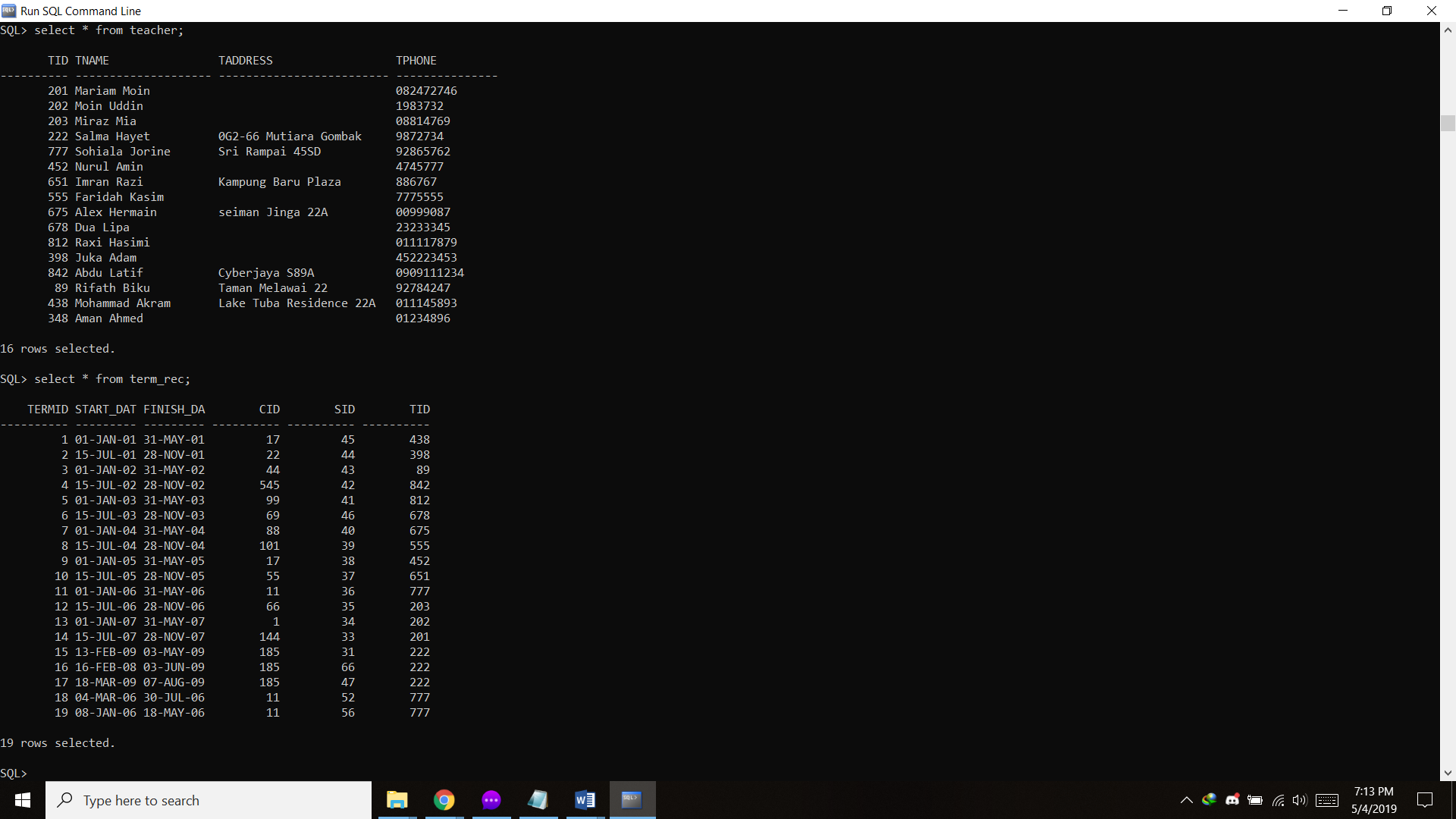
Teacher :

SQL> select \* from teacher;



Term Rec :

SQL> select \* from term\_rec;



**6.0 QUERY, ADD, REMOVE, INSERT & MODIFY DATA   
  
Value insert**

INSERT INTO TERM\_REC VALUES(15, TO\_DATE('13-FEB-09') , TO\_DATE('03-MAY-09'),185,31,222);

1 row created.

**Normal Select Statement**

SQL> select \* from term\_rec;

TERMID START\_DAT FINISH\_DA CID SID TID

---------- --------- --------- ---------- ---------- ----------

1 01-JAN-01 31-MAY-01 17 45 438

2 15-JUL-01 28-NOV-01 22 44 398

3 01-JAN-02 31-MAY-02 44 43 89

4 15-JUL-02 28-NOV-02 545 42 842

5 01-JAN-03 31-MAY-03 99 41 812

6 15-JUL-03 28-NOV-03 69 46 678

7 01-JAN-04 31-MAY-04 88 40 675

8 15-JUL-04 28-NOV-04 101 39 555

9 01-JAN-05 31-MAY-05 17 38 452

10 15-JUL-05 28-NOV-05 55 37 651

11 01-JAN-06 31-MAY-06 11 36 777

12 15-JUL-06 28-NOV-06 66 35 203

13 01-JAN-07 31-MAY-07 1 34 202

14 15-JUL-07 28-NOV-07 144 33 201

15 13-FEB-09 03-MAY-09 185 31 222

15 rows selected.

**Select Statement to find people with student id**

SQL> select sname from student where sid=31;

SNAME

-------------------------

Mohesh Mia

**Finding Student number from term record using join**

SELECT class.cname,COUNT(student.sid) as students

2 FROM TERM\_REC JOIN class ON class.cid = TERM\_REC.cid JOIN student ON student.sid=TERM\_REC.sid

3 GROUP BY class.cname

4 ORDER BY students desc;

CNAME STUDENTS

--------------- ----------

Biology 2

Physics 1

Math2 1

ICT4M 1

History02 1

English Debate 1

Socilogy 1

Database 02 1

History22 1

English 1

Islamic History 1

Advance Math 1

English Writing 1

Math1 1

**Update a table to change a value**

SQL> update student

2 set sname='Rajon'

3 where sname='Zian' ;

1 row updated.

SQL> select \* from student;

SID SNAME SDOB S GID

---------- ------------------------- --------- - ----------

31 Mohesh Mia 11-JAN-01 M 23

32 Rakib Hasan 21-JAN-02 M 24

33 Iraisha 15-FEB-01 F 25

34 Hana Mazhar 31-JUL-01 F 15

35 Mohammad 11-DEC-99 M 16

36 Stuart Broad 11-AUG-96 M 17

37 Emma Watson 11-NOV-98 F 18

38 Habiba Khan 11-SEP-95 F 19

39 Jasim Mia 01-JAN-96 M 20

40 Farhanna 09-AUG-99 F 21

41 Mahin Maisa 18-DEC-94 F 22

SID SNAME SDOB S GID

---------- ------------------------- --------- - ----------

42 Zian 20-JAN-01 M 11

43 Jony Kibria 23-DEC-92 M 12

44 Roni Darmi 20-DEC-95 M 13

45 Noyon Neon 13-DEC-97 M 14

46 Tasnia Naina 23-MAR-99 F 19

**Delete values from a table**

SQL> select \* from term\_rec;

TERMID START\_DAT FINISH\_DA CID SID TID

---------- --------- --------- ---------- ---------- ----------

1 01-JAN-01 31-MAY-01 17 45 438

2 15-JUL-01 28-NOV-01 22 44 398

3 01-JAN-02 31-MAY-02 44 43 89

4 15-JUL-02 28-NOV-02 545 42 842

5 01-JAN-03 31-MAY-03 99 41 812

6 15-JUL-03 28-NOV-03 69 46 678

7 01-JAN-04 31-MAY-04 88 40 675

8 15-JUL-04 28-NOV-04 101 39 555

9 01-JAN-05 31-MAY-05 17 38 452

10 15-JUL-05 28-NOV-05 55 37 651

11 01-JAN-06 31-MAY-06 11 36 777

12 15-JUL-06 28-NOV-06 66 35 203

13 01-JAN-07 31-MAY-07 1 34 202

14 15-JUL-07 28-NOV-07 144 33 201

15 13-FEB-09 03-MAY-09 185 31 222

SQL> delete from term\_rec

2 where termid=16;

SQL> select \* from term\_rec;

TERMID START\_DAT FINISH\_DA CID SID TID

---------- --------- --------- ---------- ---------- ----------

1 01-JAN-01 31-MAY-01 17 45 438

2 15-JUL-01 28-NOV-01 22 44 398

3 01-JAN-02 31-MAY-02 44 43 89

4 15-JUL-02 28-NOV-02 545 42 842

5 01-JAN-03 31-MAY-03 99 41 812

6 15-JUL-03 28-NOV-03 69 46 678

7 01-JAN-04 31-MAY-04 88 40 675

8 15-JUL-04 28-NOV-04 101 39 555

9 01-JAN-05 31-MAY-05 17 38 452

10 15-JUL-05 28-NOV-05 55 37 651

11 01-JAN-06 31-MAY-06 11 36 777

12 15-JUL-06 28-NOV-06 66 35 203

13 01-JAN-07 31-MAY-07 1 34 202

14 15-JUL-07 28-NOV-07 144 33 201

**Creating a view**  
  
SQL> create view student\_count

2 as select sid,sname

3 from student

4 order by sid desc;

View created.

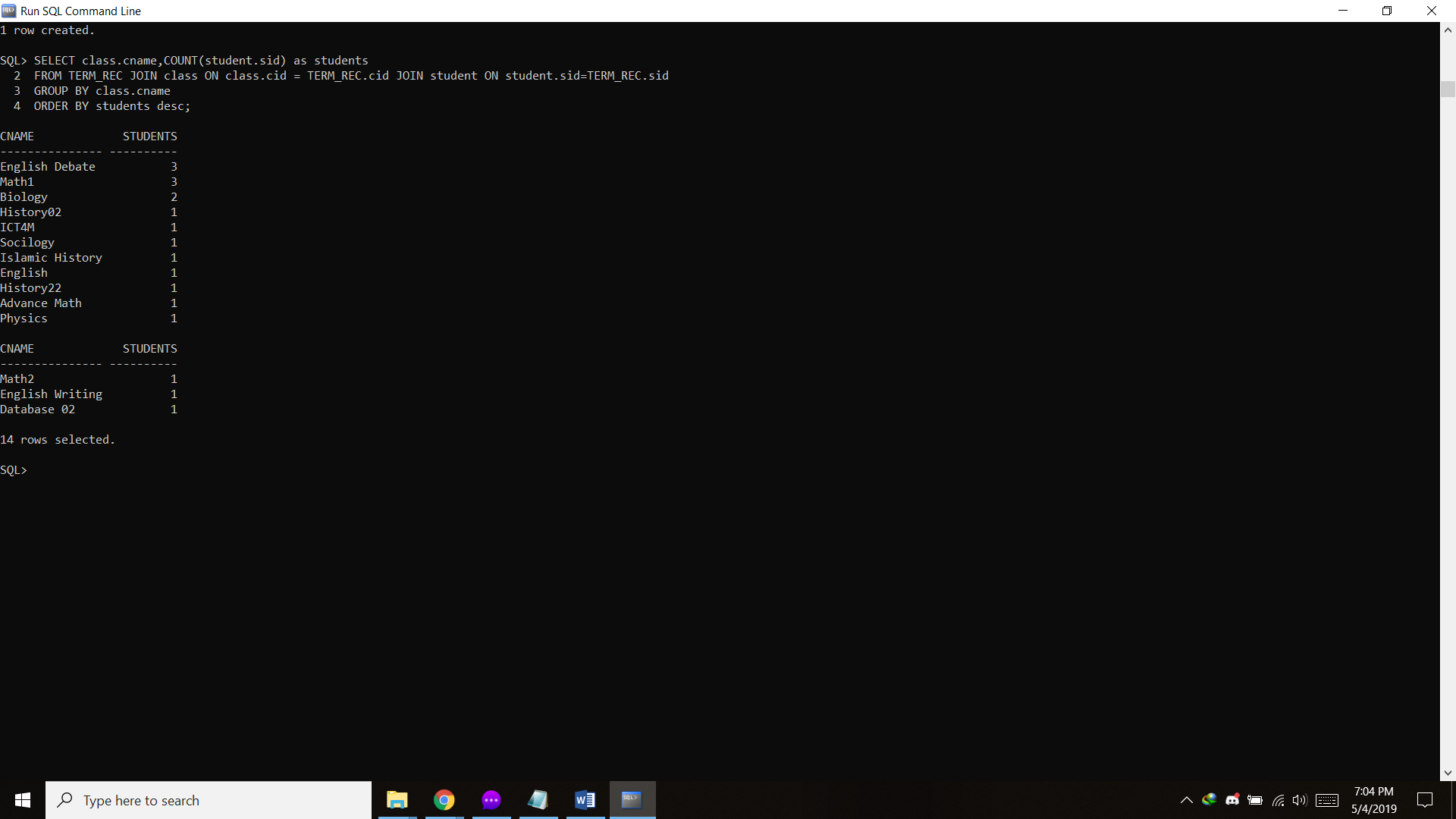
**Find the class with the most students.**

SELECT class.cname,COUNT(student.sid) as students

FROM TERM\_REC JOIN class ON class.cid = TERM\_REC.cid JOIN student ON student.sid=TERM\_REC.sid

GROUP BY class.cname

ORDER BY students desc;



**List the total number of students in every class.**

SELECT class.cname,COUNT(student.sid) as total\_of\_students

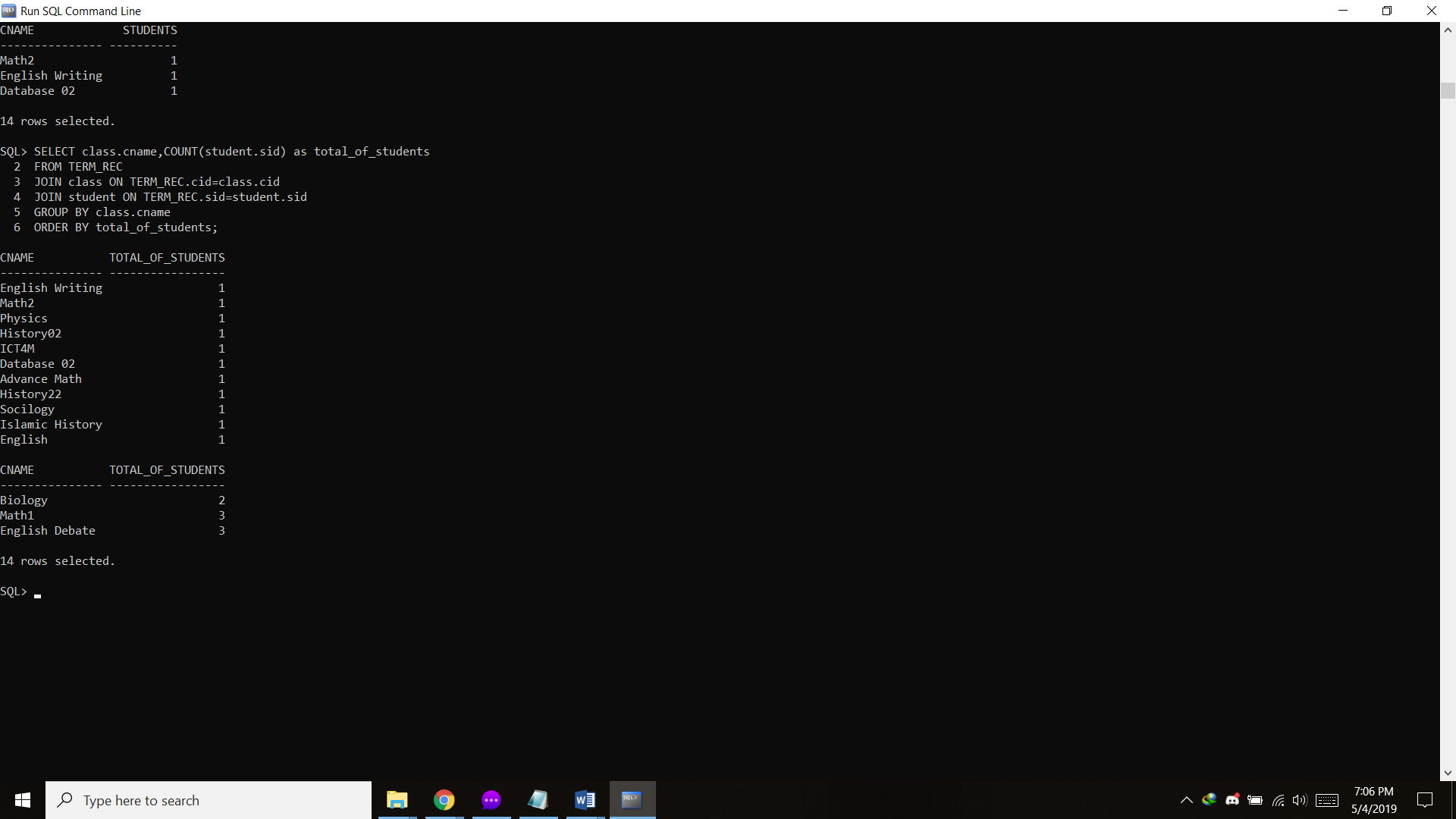
FROM TERM\_REC

JOIN class ON TERM\_REC.cid=class.cid

JOIN student ON TERM\_REC.sid=student.sid

GROUP BY class.cname

ORDER BY total\_of\_students;



**Procedures:**

* 1. A PROCEDURE TO REGISTER A GUARDIAN THE DATABASE.

**-----PROCEDURE TO REGISTER GUARDIAN-----**

1. CREATE OR REPLACE PROCEDURE Addnewguardian
2. (g\_id guardian.gid%TYPE,
3. g\_name guardian.gname%TYPE,
4. g\_adddress guardian.gaddress%TYPE,
5. g\_occupation guardian. gOccupation %TYPE,
6. g\_phone guardian. gphone %TYPE)
7. AS
8. BEGIN
9. INSERT INTO guardian (gid, gname, gaddress, gOccupation, gphone)
10. VALUES (g\_id, g\_name, g\_adddress, g\_occupation, g\_phone);
11. END Addnewguardian;
12. /

**-----ANONYMOUS BLOCK TO REGISTER GUARDIAN-----**

ACCEPT g\_id PROMPT 'Enter the guardian ID: '

ACCEPT g\_name PROMPT 'Enter the guardian name: '

ACCEPT g\_adddress PROMPT 'Enter the guardian address: '

ACCEPT g\_occupation PROMPT 'Enter the guardian occupation: '

ACCEPT g\_phone PROMPT 'Enter the guardian phone number: '

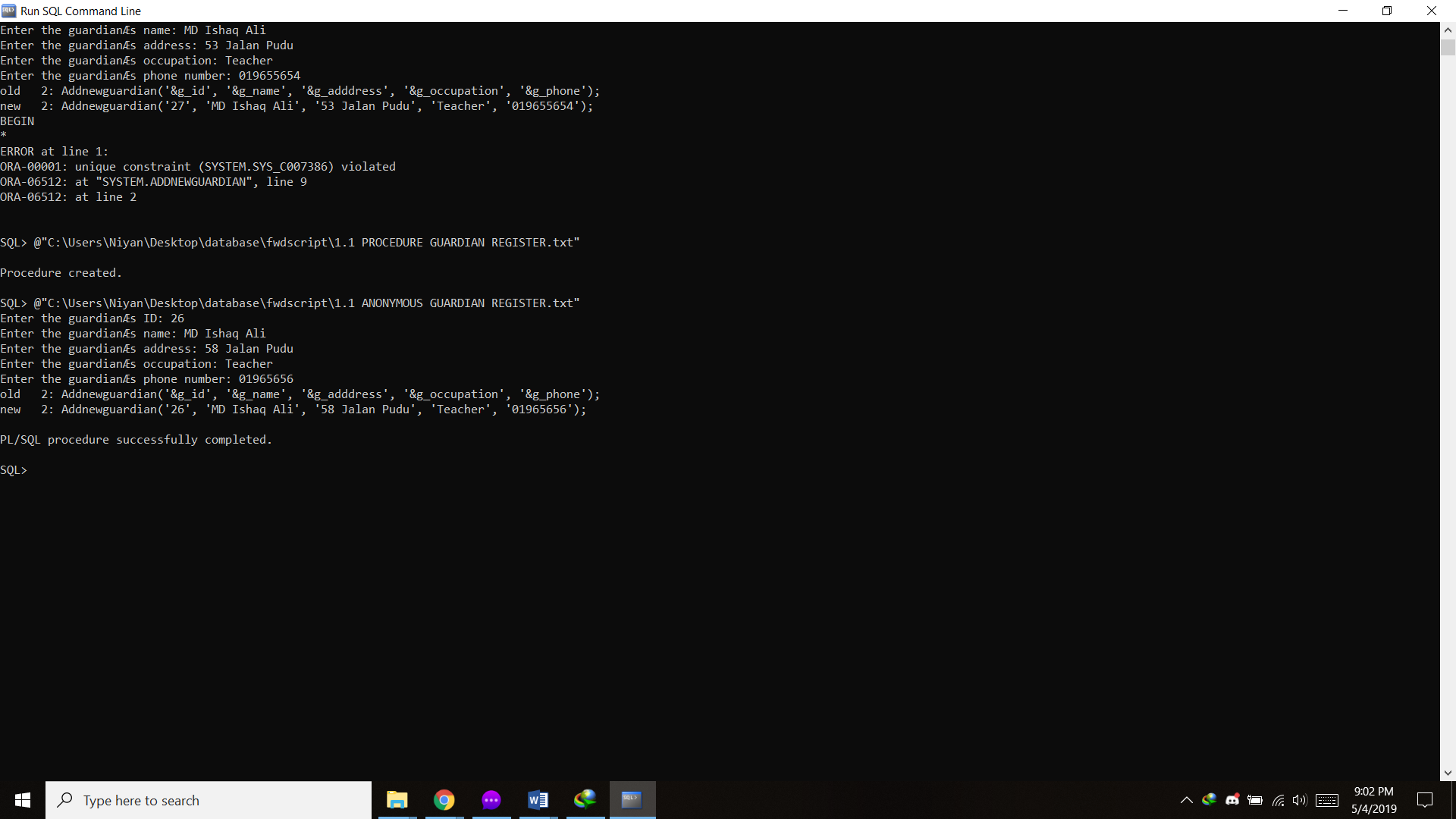
BEGIN

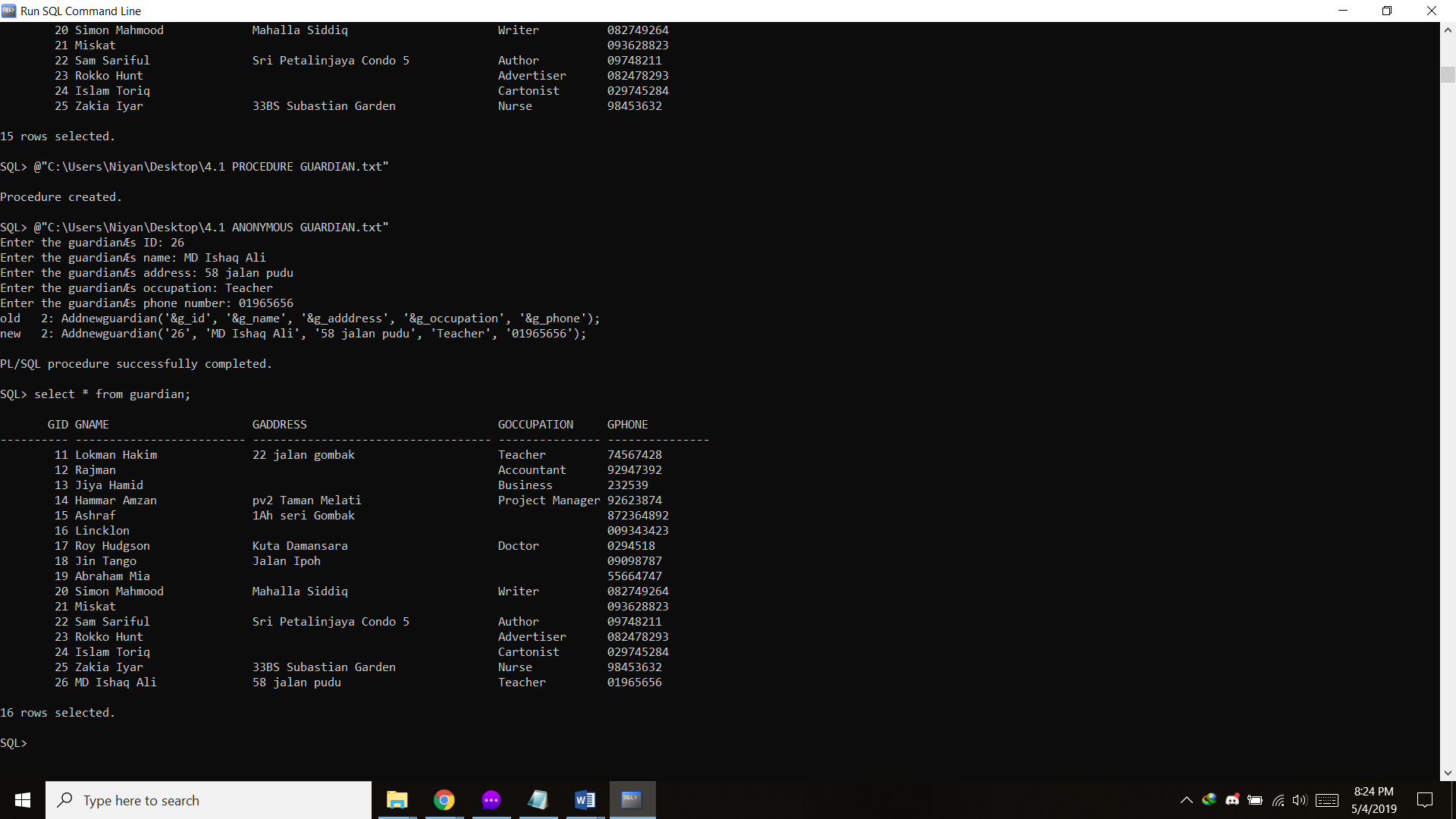
Addnewguardian('&g\_id', '&g\_name', '&g\_adddress', '&g\_occupation', '&g\_phone');

DBMS\_OUTPUT.put\_line('The guardian is successfully registered.');

END;

/





* 1. A PROCEDURE TO REGISTER A STUDENT INTO THE DATABASE.

1. **-----PROCEDURE TO REGISTER STUDENT-----**
2. CREATE OR REPLACE PROCEDURE Addnewstudent
3. (s\_id student.sid%TYPE,
4. s\_name student. sname%TYPE,
5. s\_dob student. sdob%TYPE,
6. s\_gender student. sgender%TYPE,
7. g\_id student. gid %TYPE
8. )
9. AS
10. BEGIN
11. INSERT INTO student (sid, sname, sdob, sgender, gid)
12. VALUES (s\_id, s\_name, s\_dob, s\_gender, g\_id);
13. END Addnewstudent;
14. /

**-----ANONYMOUS BLOCK TO REGISTER STUDENT-----**

ACCEPT s\_id PROMPT 'Enter the student ID: '

ACCEPT s\_name PROMPT 'Enter the student name: '

ACCEPT s\_dob PROMPT 'Enter the student date of birth: '

ACCEPT s\_gender PROMPT 'Enter the student gender: '

ACCEPT g\_id PROMPT 'Enter the student guardian ID: '

BEGIN

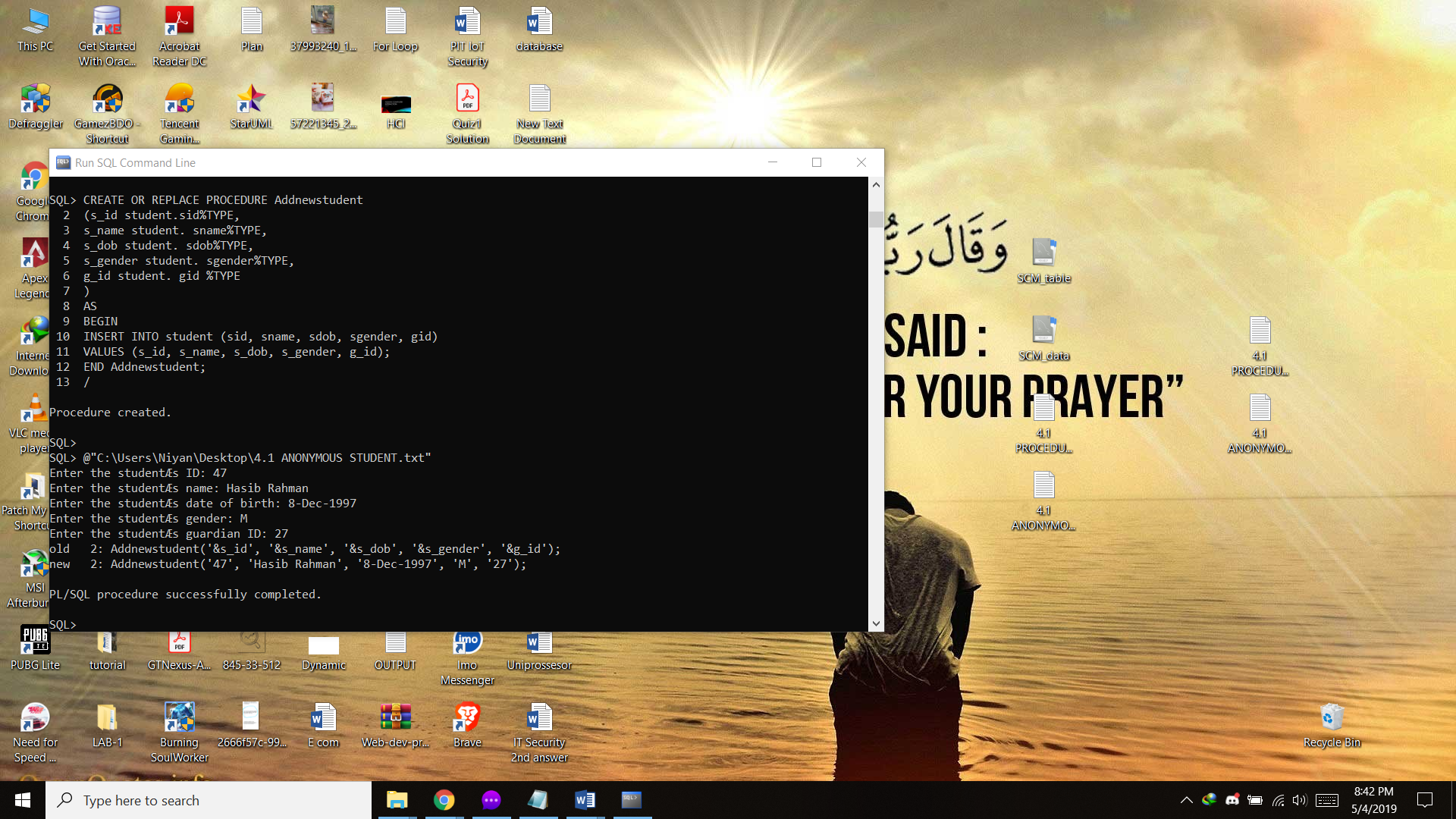
Addnewstudent('&s\_id', '&s\_name', '&s\_dob', '&s\_gender', '&g\_id');

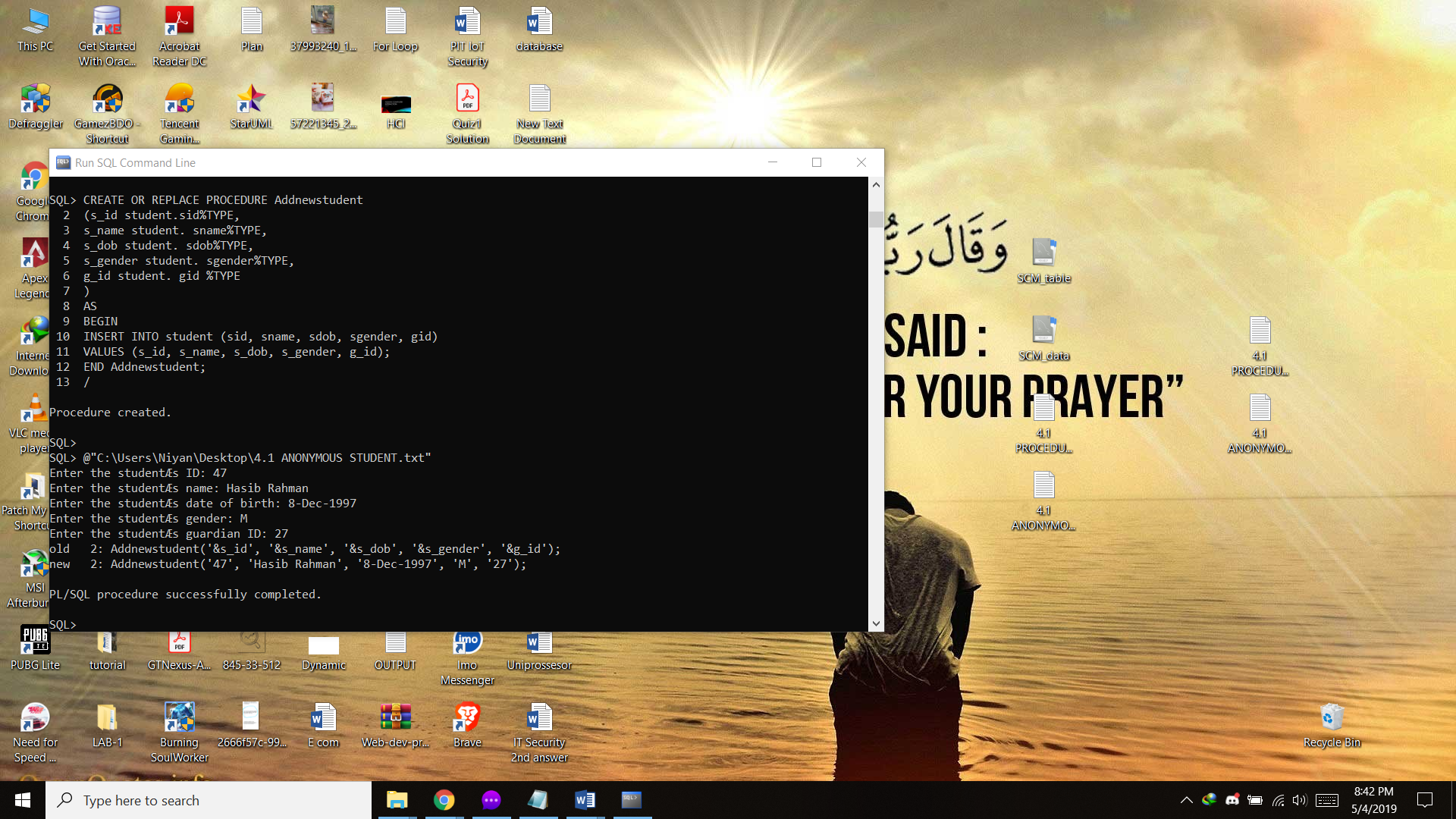
DBMS\_OUTPUT.put\_line('The student is successfully registered.');

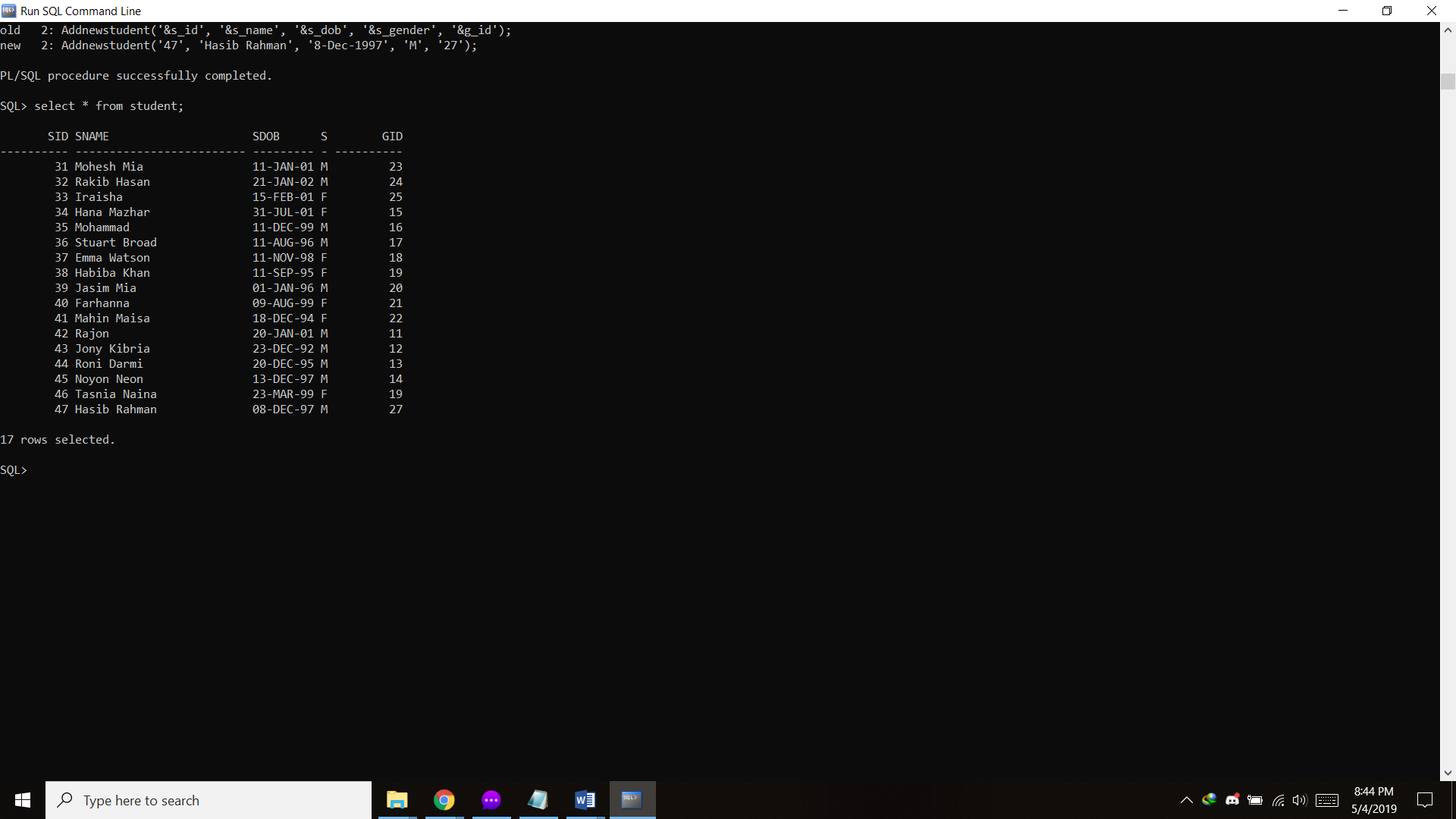
END;

/

**Output :**







**1.3** A procedure that retrieves the detail of the current term record and guardian details of a student. Call the function from anonymous block to allow the user to enter the student id.

**-----PROCEDURE-----**

CREATE OR REPLACE PROCEDURE record\_details

(stud\_id term\_rec.SID%TYPE,

term\_id OUT term\_rec.TERMID%TYPE,

st\_date OUT term\_rec.Start\_Date%TYPE,

fin\_date OUT term\_rec.Finish\_Date%TYPE,

class\_id OUT term\_rec.CID%TYPE,

teacher\_id OUT term\_rec.TID%TYPE,

guardian\_id OUT guardian.GID%TYPE,

guardian\_name OUT guardian.GName%TYPE,

guardian\_address OUT guardian.GAddress%TYPE,

guardian\_occupation OUT guardian.GOccupation%TYPE,

guardian\_phone OUT guardian.GPhone%TYPE)

AS

BEGIN

SELECT TERMID, Start\_Date, Finish\_Date, CID, TID

INTO term\_id, st\_date, fin\_date, class\_id, teacher\_id

FROM term\_rec

JOIN student

USING (sid)

WHERE sid = stud\_id;

SELECT GID, GName, GAddress, GOccupation, GPhone

INTO guardian\_id, guardian\_name, guardian\_address, guardian\_occupation, guardian\_phone

FROM guardian

JOIN student

USING (gid)

WHERE sid = stud\_id;

END;

/

**-----ANONYMOUS BLOCK-----**

SET SERVEROUTPUT ON

SET VERIFY OFF

ACCEPT stud\_id PROMPT 'Enter the student ID: '

DECLARE

t\_term\_id term\_rec.TERMID%TYPE;

t\_start\_date term\_rec.Start\_Date%TYPE;

t\_finish\_date term\_rec.Finish\_Date%TYPE;

t\_class\_id term\_rec.CID%TYPE;

t\_teacher\_id term\_rec.TID%TYPE;

g\_guardian\_id guardian.GID%TYPE;

g\_guardian\_name guardian.GName%TYPE;

g\_guardian\_address guardian.GAddress%TYPE;

g\_guardian\_occupation guardian.GOccupation%TYPE;

g\_guardian\_phone guardian.GPhone%TYPE;

BEGIN

record\_details

('&stud\_id',

t\_term\_id,

t\_start\_date,

t\_finish\_date,

t\_class\_id,

t\_teacher\_id,

g\_guardian\_id,

g\_guardian\_name,

g\_guardian\_address,

g\_guardian\_occupation,

g\_guardian\_phone);

DBMS\_OUTPUT.PUT\_LINE('TERM RECORD ID: ' || t\_term\_id);

DBMS\_OUTPUT.PUT\_LINE('STARTING DATE: ' || t\_start\_date);

DBMS\_OUTPUT.PUT\_LINE('FINISHING DATE: ' || t\_finish\_date);

DBMS\_OUTPUT.PUT\_LINE('CLASS ID: ' || t\_class\_id);

DBMS\_OUTPUT.PUT\_LINE('TEACHER ID: ' || t\_teacher\_id);

DBMS\_OUTPUT.PUT\_LINE('GUARDIAN ID: ' || g\_guardian\_id);

DBMS\_OUTPUT.PUT\_LINE('GUARDIAN NAME: ' || g\_guardian\_name);

DBMS\_OUTPUT.PUT\_LINE('GUARDIAN ADDRESS: ' || g\_guardian\_address);

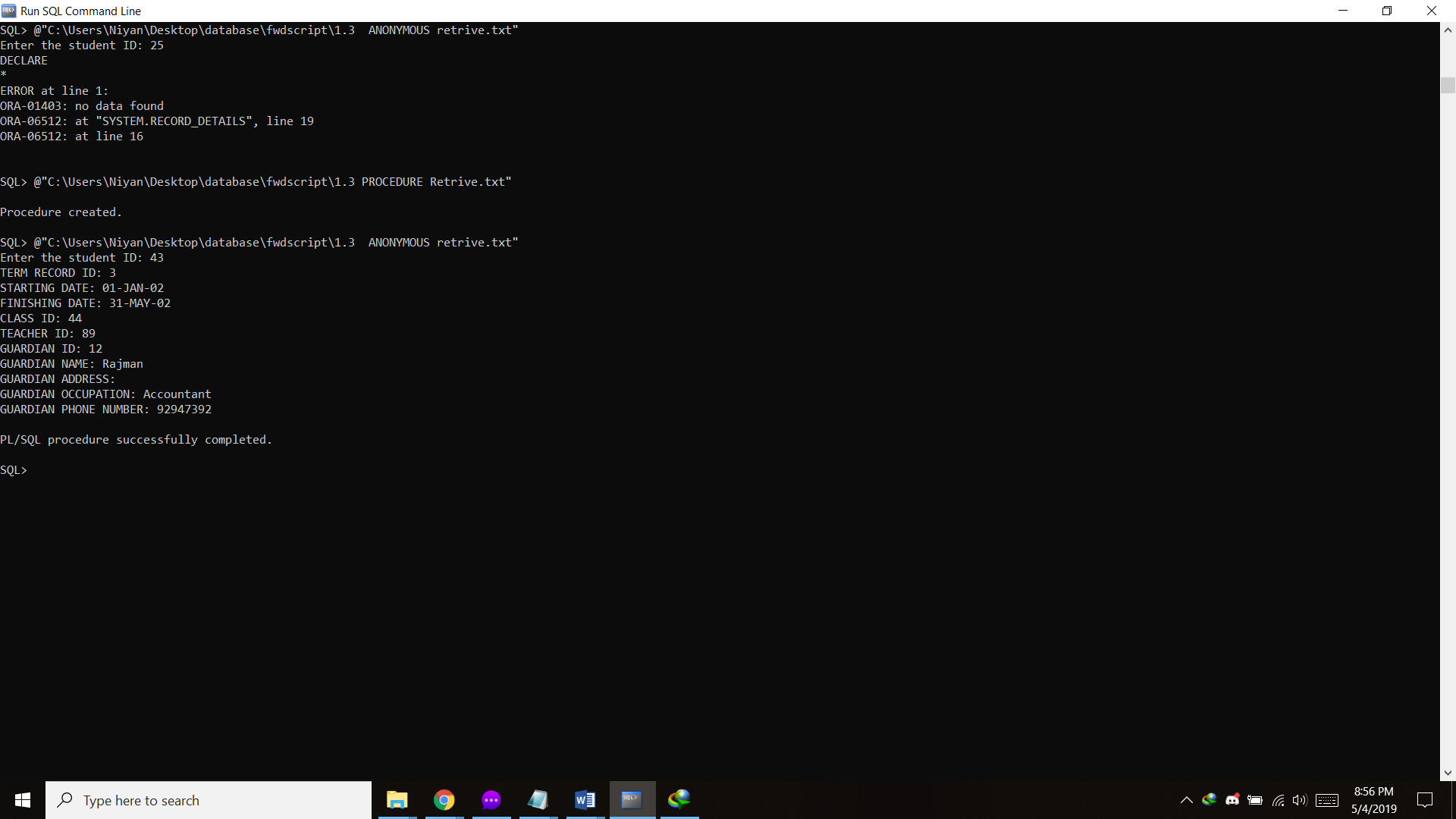
DBMS\_OUTPUT.PUT\_LINE('GUARDIAN OCCUPATION: ' || g\_guardian\_occupation);

DBMS\_OUTPUT.PUT\_LINE('GUARDIAN PHONE NUMBER: ' || g\_guardian\_phone);

END;

/

**Output :**



**2.1** A function that calculates the total number of students managed by each teacher. If the teacher has managed **more than 3 (three) student**, display the status as ‘FULL: TEACHER STUDENT RATIO IS MAXIMUM’.

**-----FUNCTION-----**

CREATE OR REPLACE FUNCTION total\_student

(total\_num NUMBER)

RETURN VARCHAR2

IS

status VARCHAR2(40);

BEGIN

CASE WHEN total\_num >= 3 THEN status := 'FULL';

ELSE status := 'NOT FULL.';

END CASE;

RETURN(status);

END total\_student;

/

**-----ANONYMOUS BLOCK-----**

SET SERVEROUTPUT ON

SET VERIFY OFF

ACCEPT teach\_id PROMPT 'Enter the teacher ID: '

DECLARE

v\_total term\_rec.SID%TYPE;

v\_status VARCHAR2(40);

BEGIN

SELECT COUNT(SID)

INTO v\_total

FROM term\_rec

WHERE TID = &teach\_id;

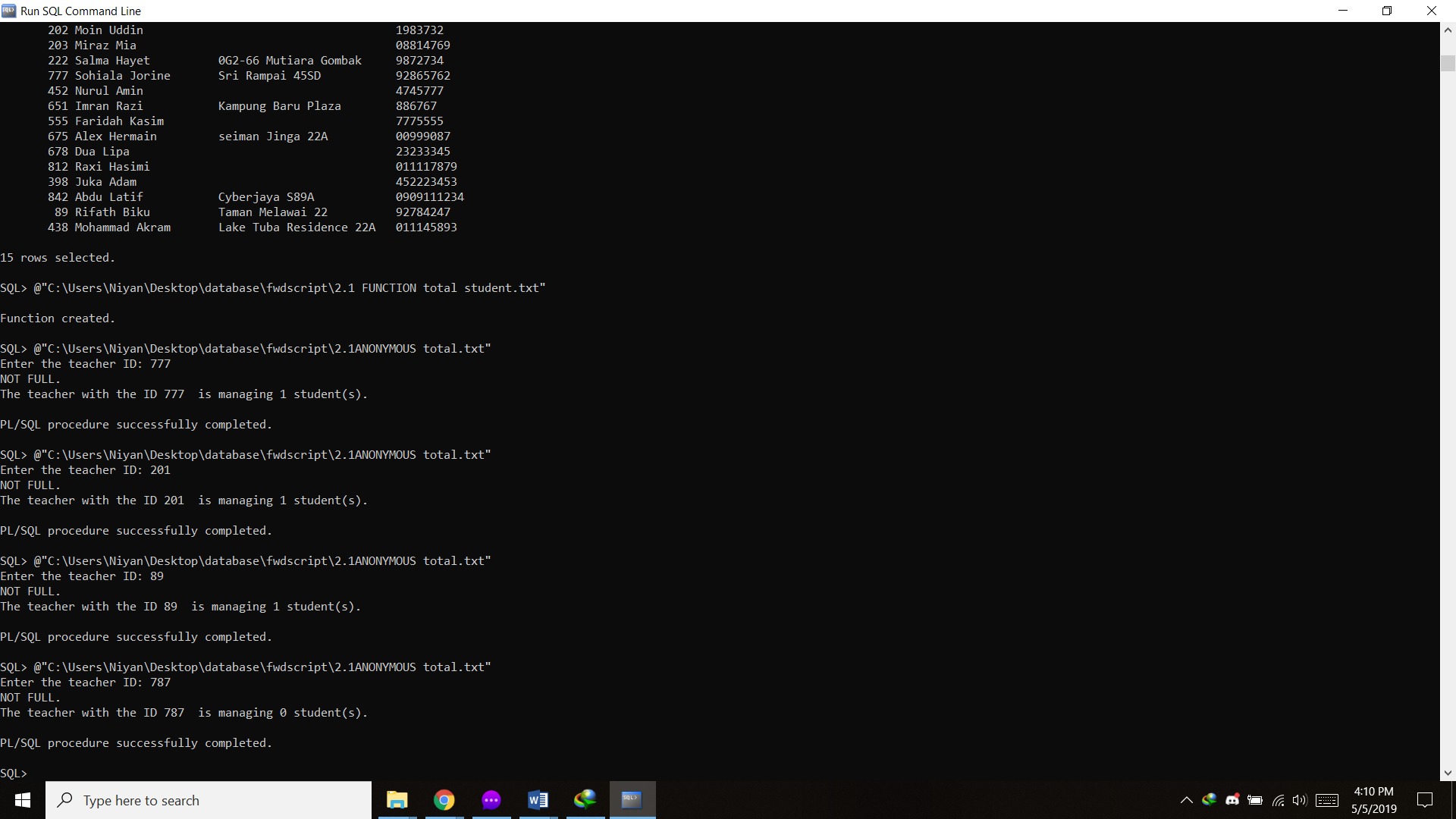
v\_status := total\_student(v\_total);

DBMS\_OUTPUT.PUT\_LINE(v\_status);

DBMS\_OUTPUT.PUT\_LINE('The teacher with the ID ' ||&teach\_id|| ' is managing ' ||v\_total|| ' student(s).');

END : /

**Output :**



![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFiaXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**2.2** A FUNCTION THAT DETERMINES THE REGISTRATION FEE BASED ON THE FOLLOWING TABLE:

|  |  |
| --- | --- |
| Number of Student | Charge |
| 1 | RM 450 |
| 2< | RM 400 |

**-----FUNCTION-----**

CREATE OR REPLACE FUNCTION reg\_fee

(v\_stnum NUMBER)

RETURN NUMBER

AS

v\_fee NUMBER(9,2);

BEGIN

IF v\_stnum = 1 THEN v\_fee := 450;

ELSE v\_fee := 400;

END IF;

RETURN (v\_fee);

END;

/

**-----ANONYMOUS BLOCK FOR FUNCTION-----**

SET SERVEROUTPUT ON

SET VERIFY OFF

ACCEPT num PROMPT 'Enter the number of student: '

DECLARE

v\_fee NUMBER(9,2);

BEGIN

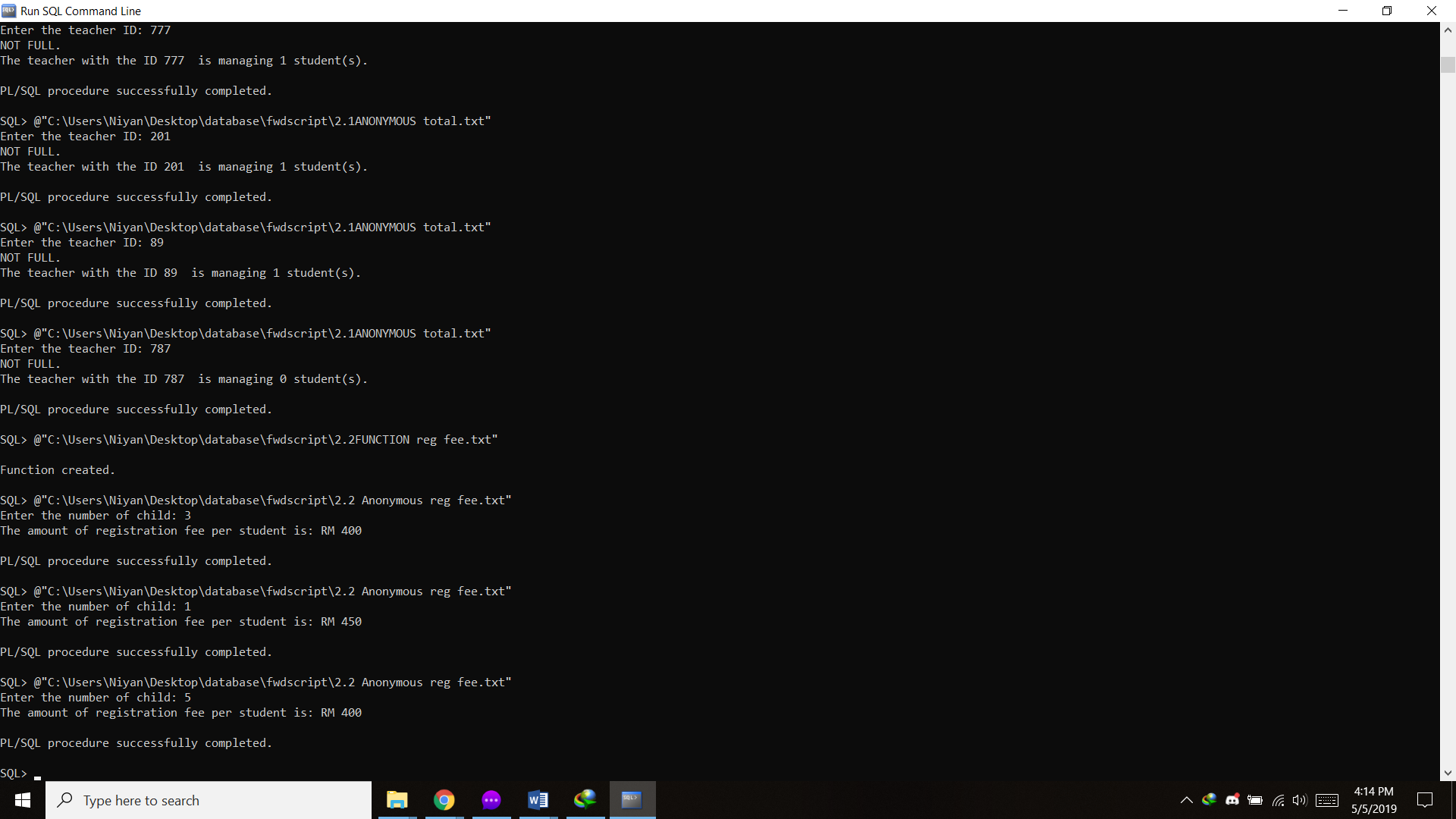
v\_fee := reg\_fee(&num);

DBMS\_OUTPUT.PUT\_LINE ('The amount of registration fee per student is: RM ' || v\_fee);

END;

/

**Output :**



**Cursor**

Data Update Cursor

BEGIN

Update teacher

Set tname='Nayeem Uddin'

where tname='Dua Lipa';

IF SQL%NOTFOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No maching record');

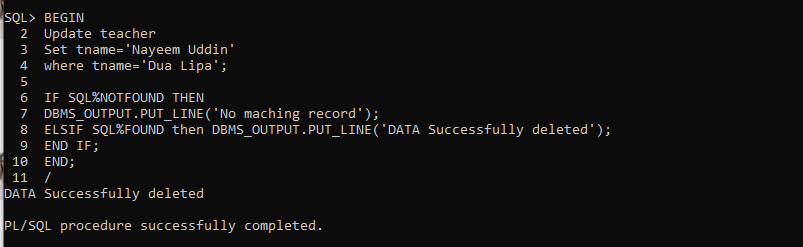
ELSIF SQL%FOUND then DBMS\_OUTPUT.PUT\_LINE('DATA Successfully Updated');

END IF;

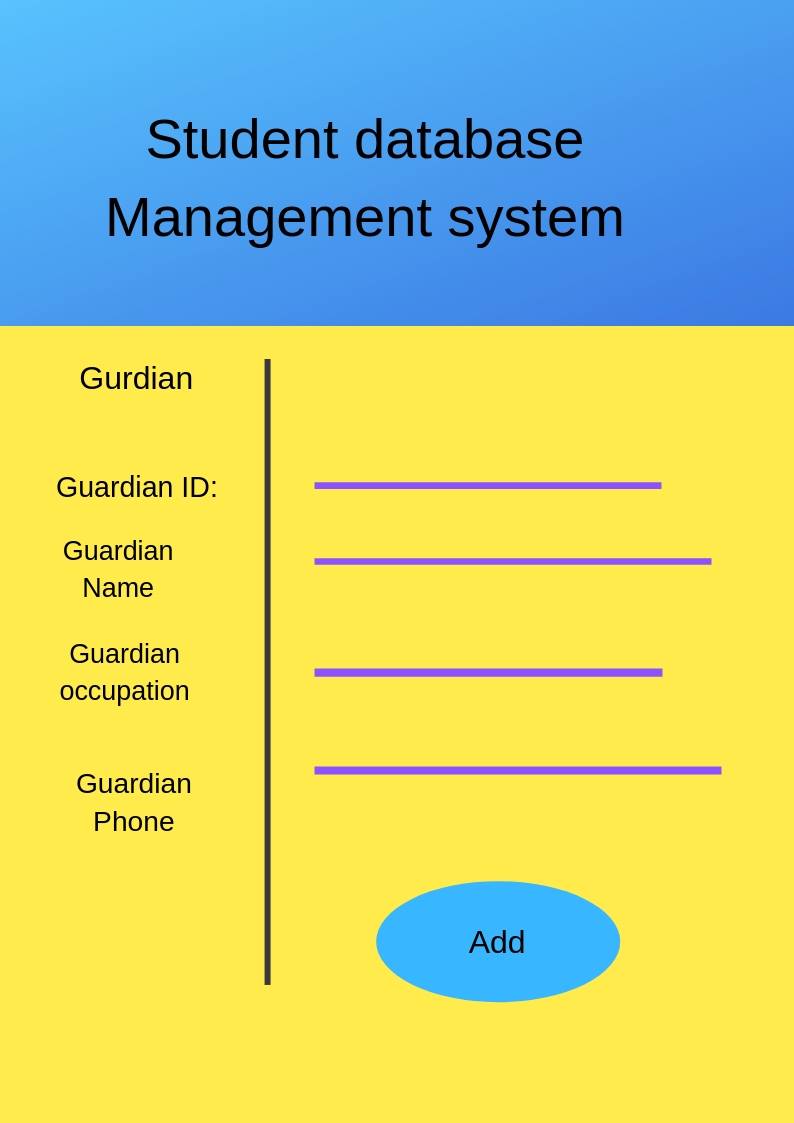
END;

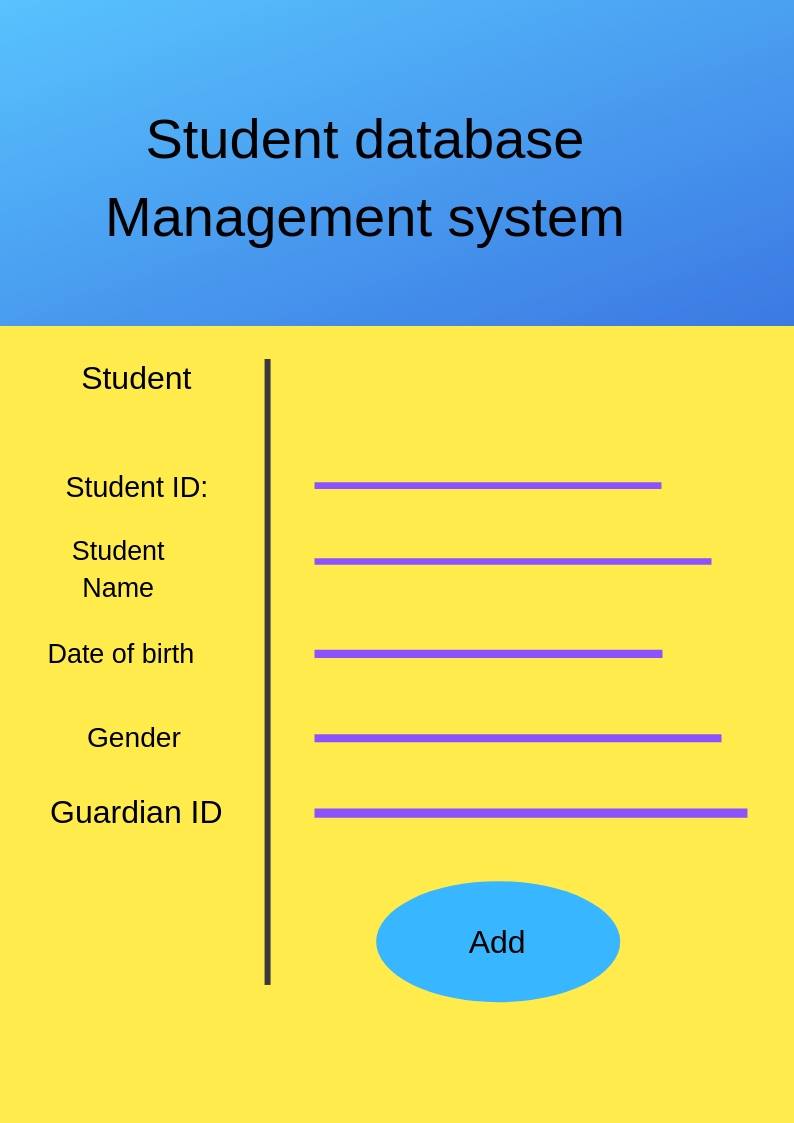
/

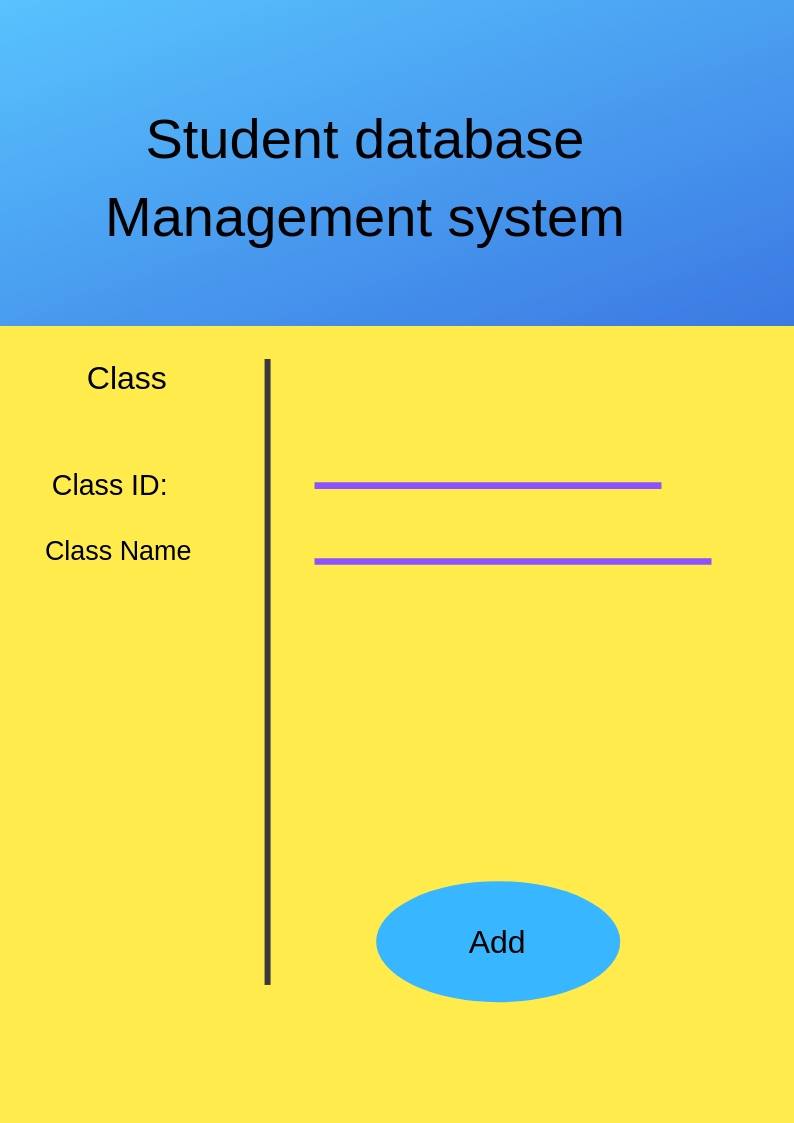
Program Execute :

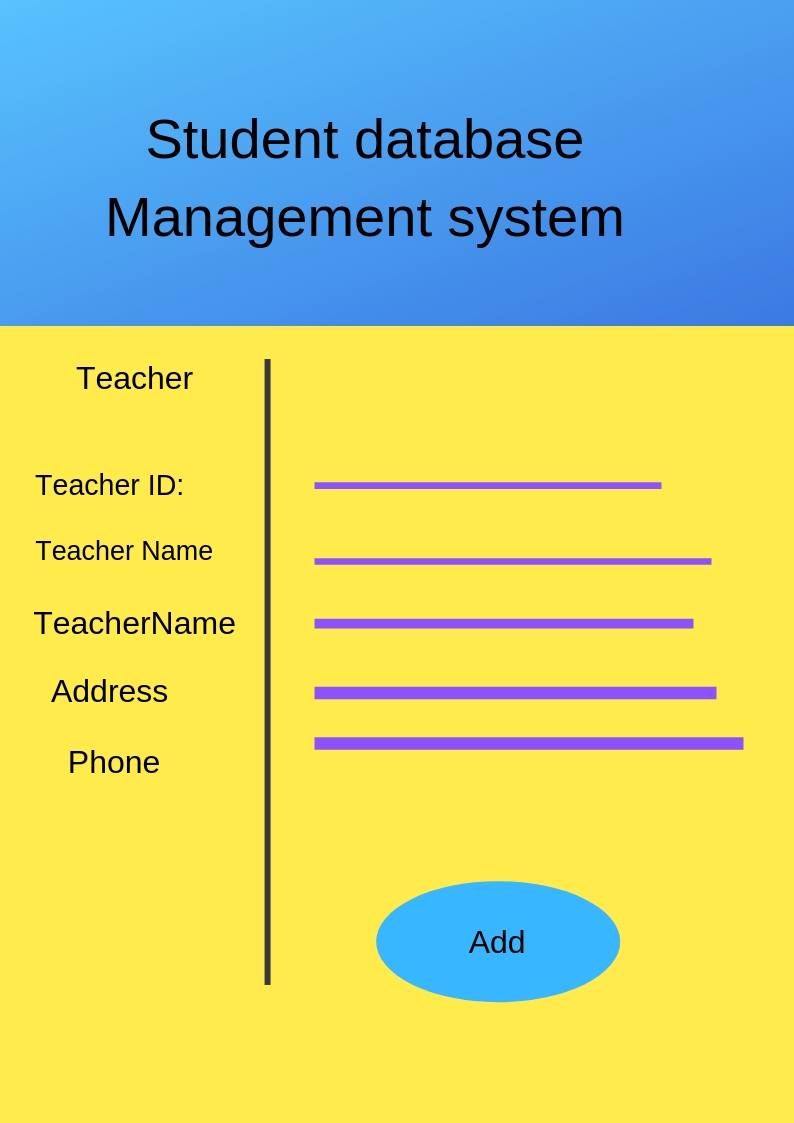


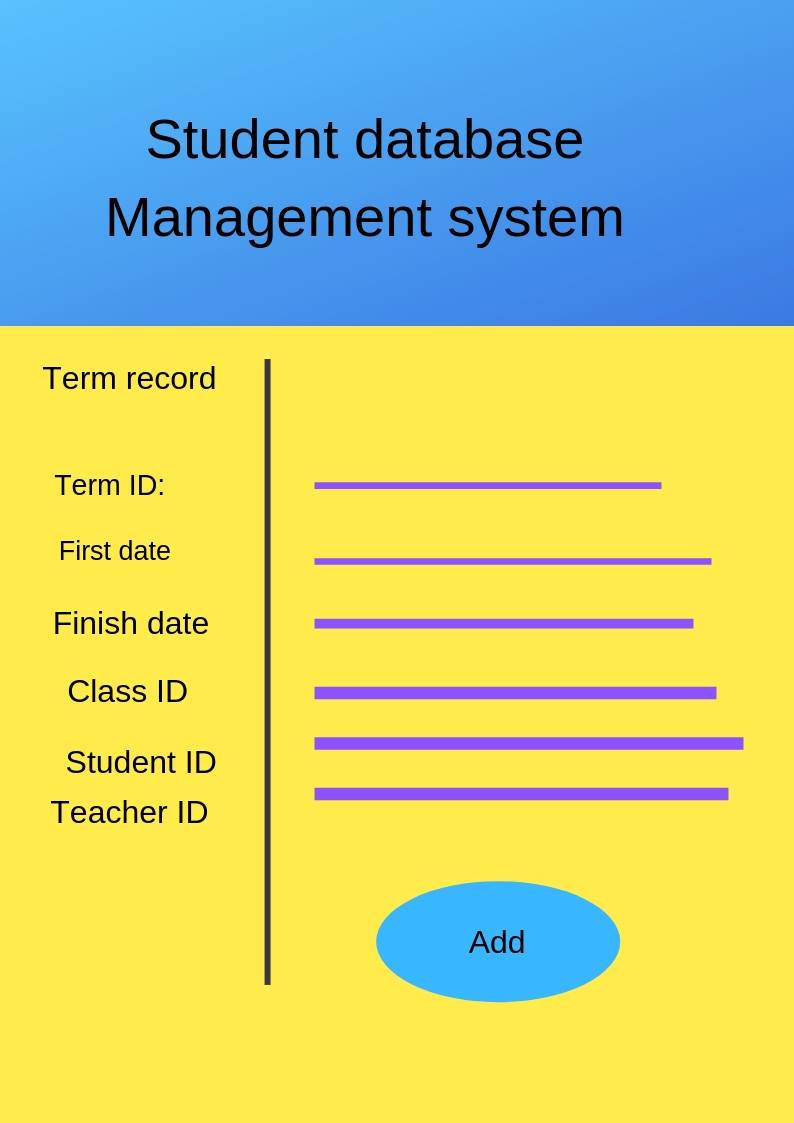
**Interface :**

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****

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****

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**Thank You**