

**KULLIYYAH OF INFORMATION & COMMUNICATION TECHNOLOGY**

INFO 2103- Database Programing

SEMESTER 2, 2018/19

SECTION-4

**Project Task 7-8**

TOPIC: Student Database Management Service

**PREPARED BY:**

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**SUBMITTED TO:**

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**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: '

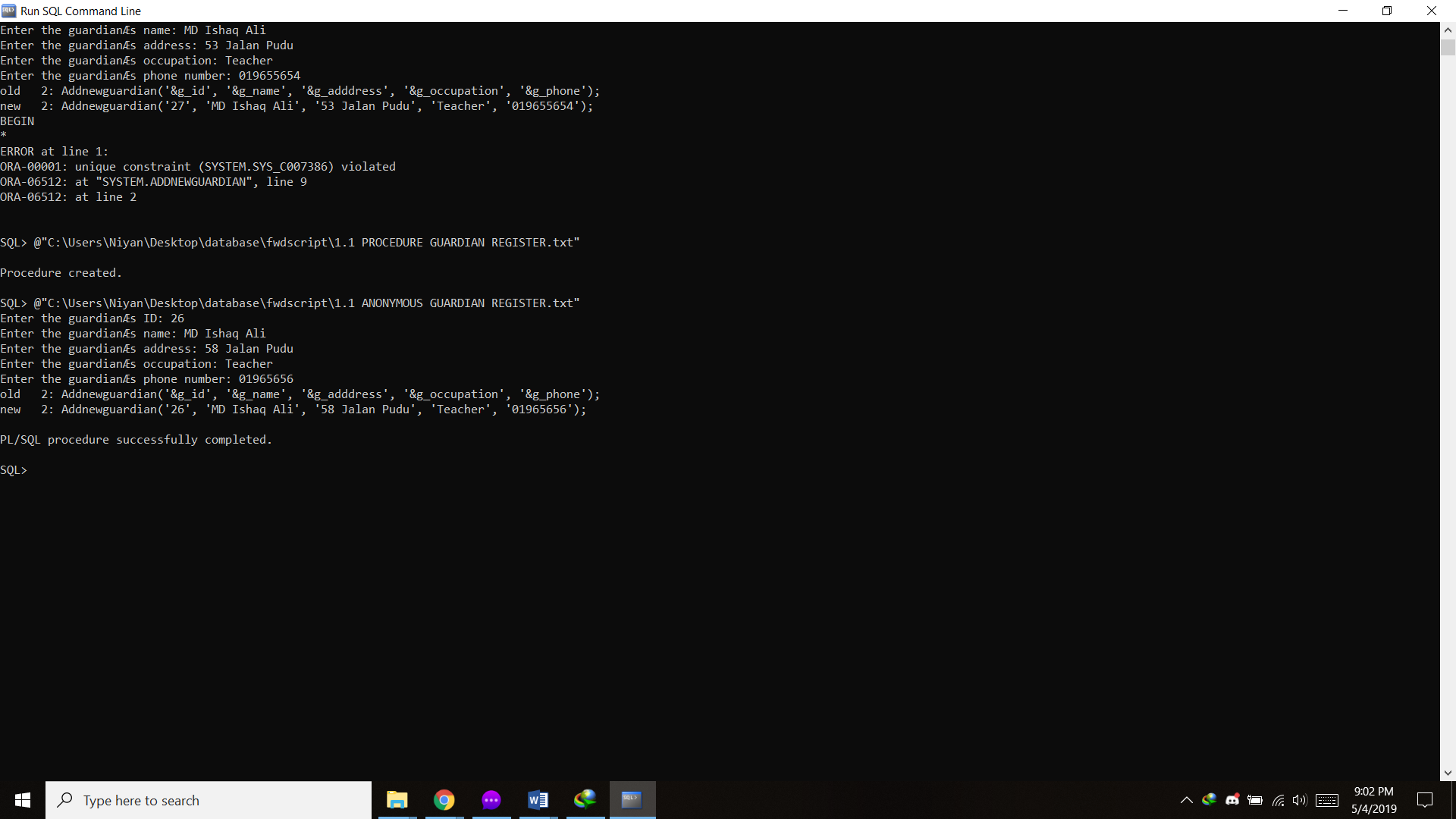
BEGIN

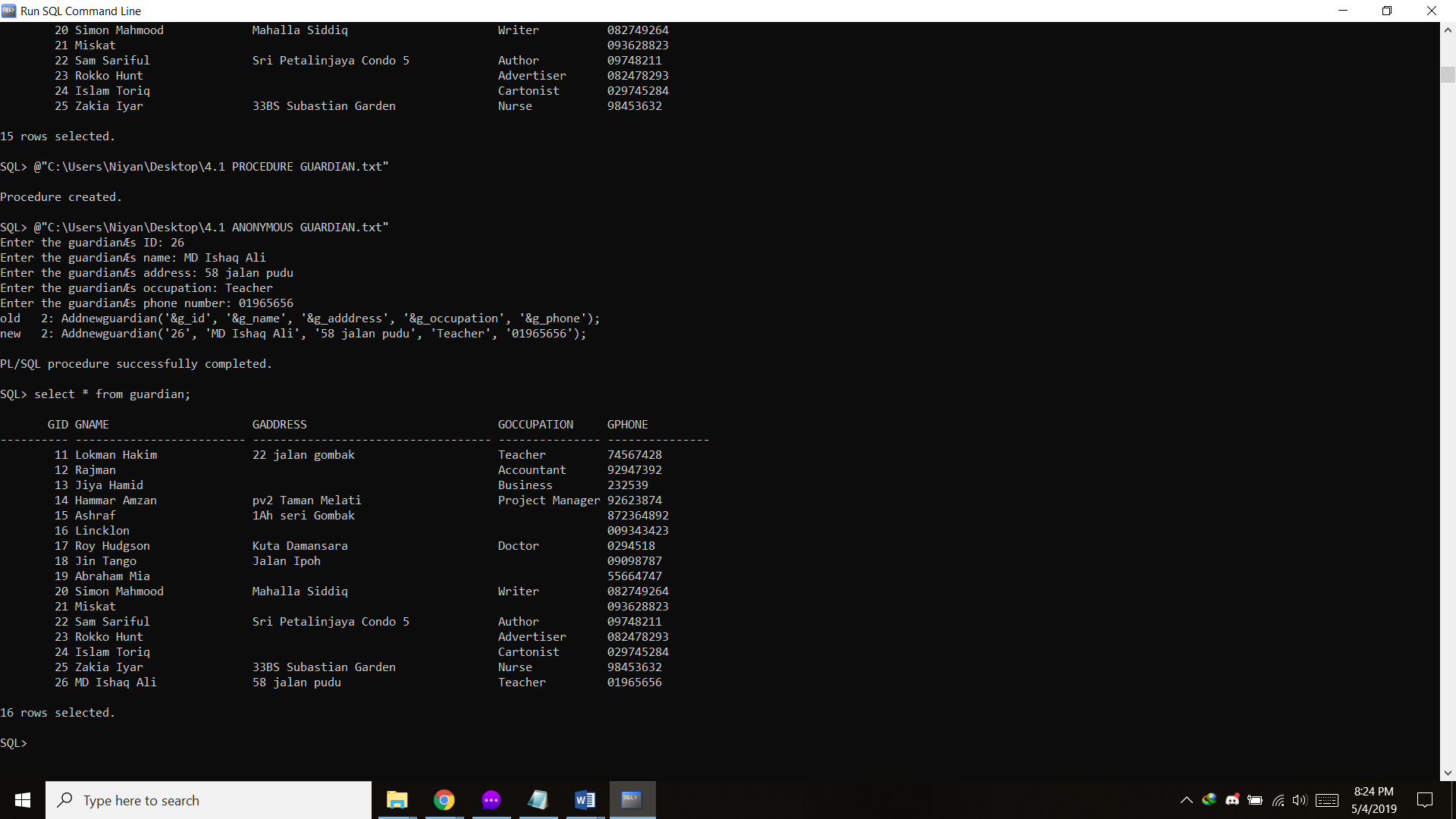
Addnewguardian('&g\_id', '&g\_name', '&g\_adddress', '&g\_occupation', '&g\_phone');

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

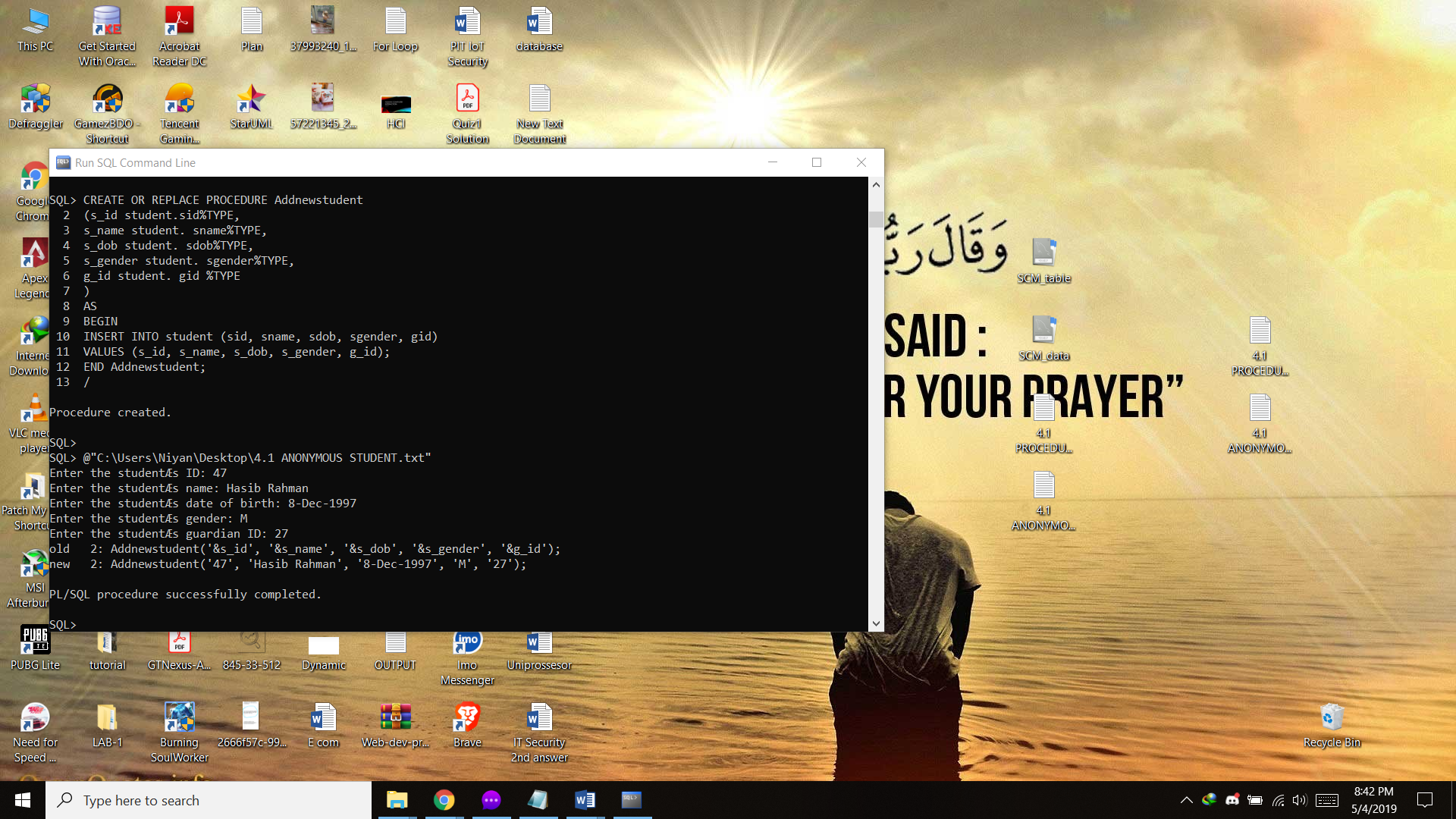
Addnewstudent('&s\_id', '&s\_name', '&s\_dob', '&s\_gender', '&g\_id');

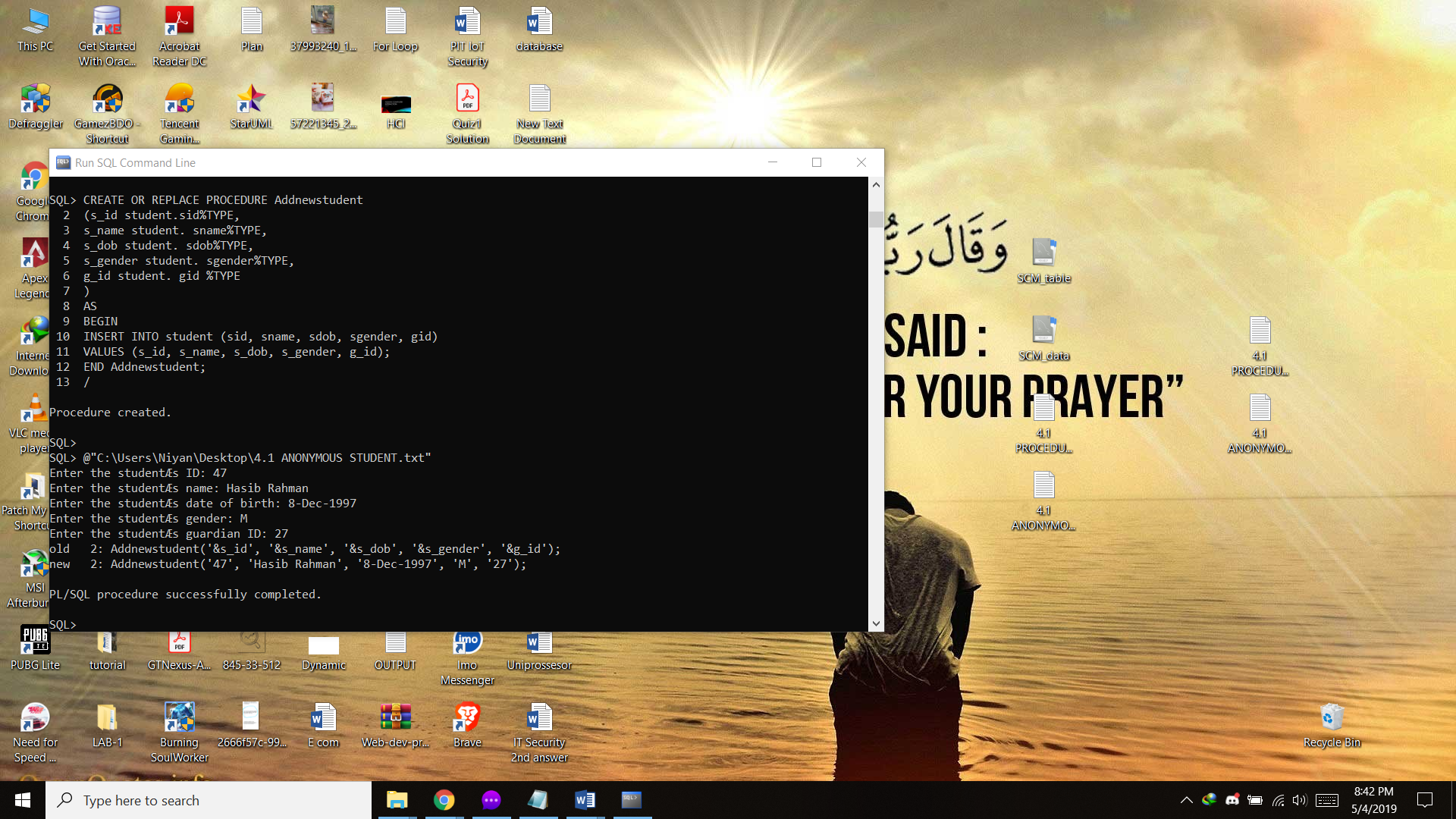
DBMS\_OUTPUT.put\_line('The student is successfully registered.');

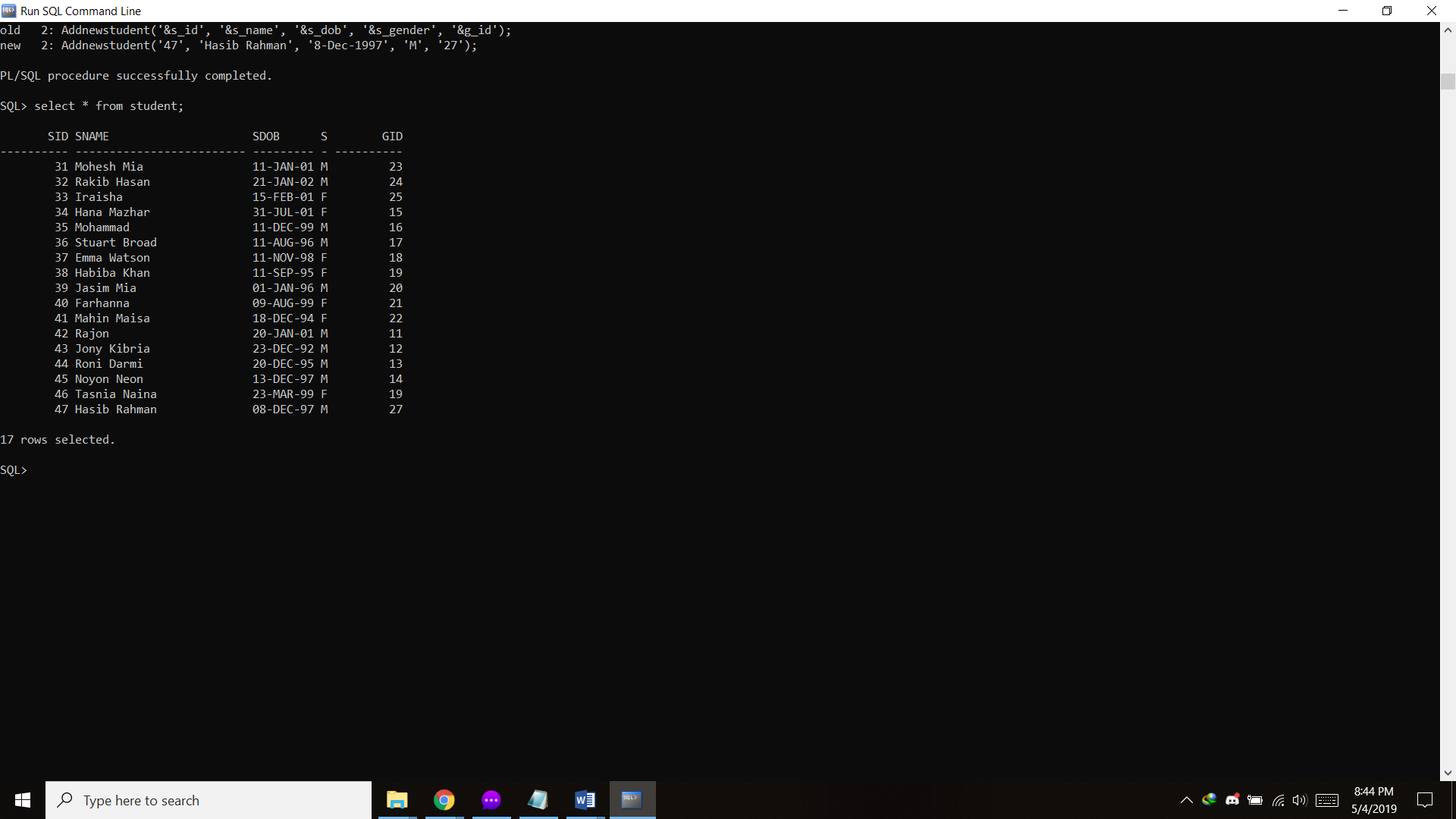
END;

/

**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);

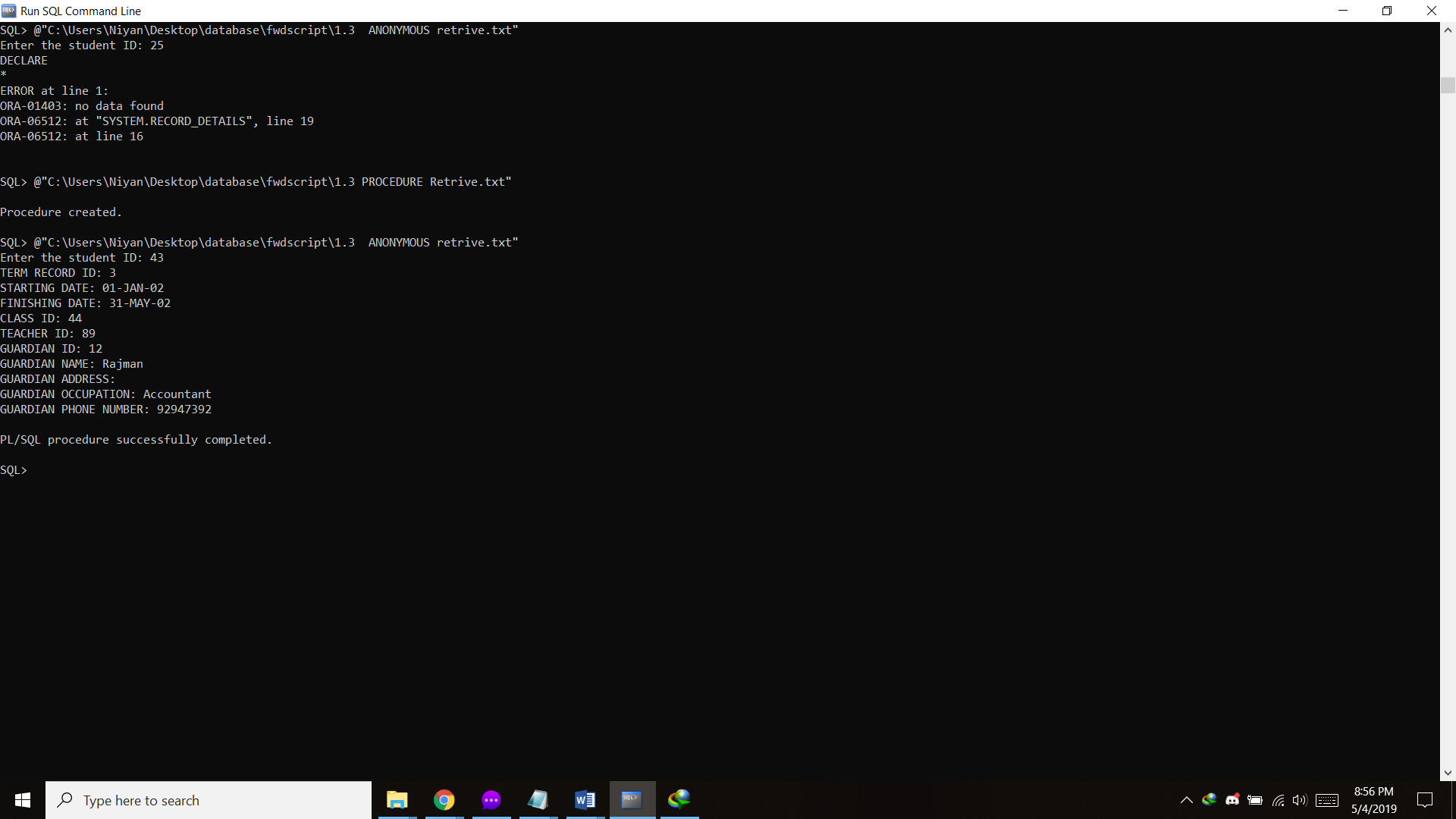
DBMS\_OUTPUT.PUT\_LINE('GUARDIAN OCCUPATION: ' || g\_guardian\_occupation);

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;

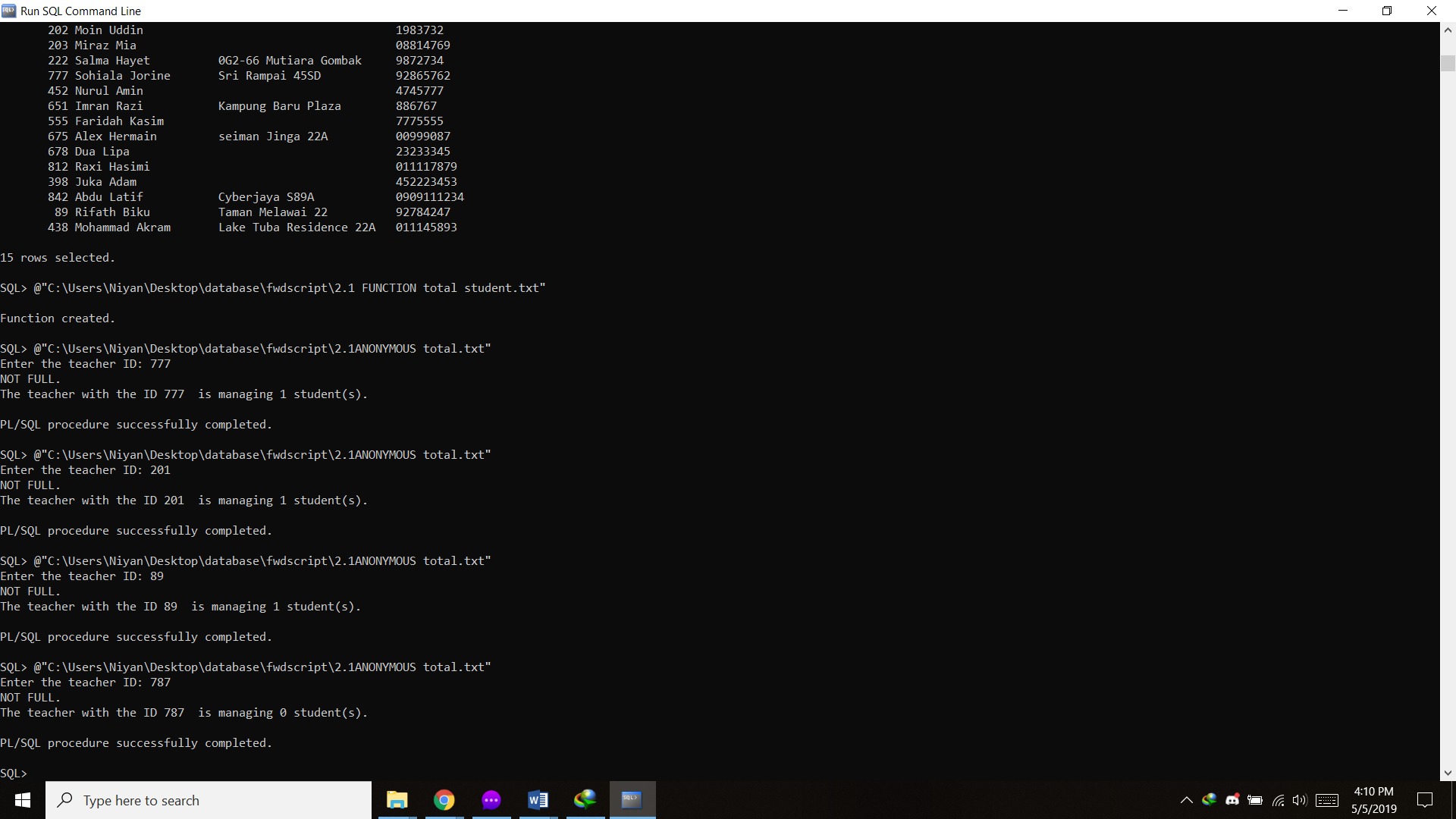
v\_status := total\_student(v\_total);

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 :**

