System login at first.

then create a new user.

create user Dumbledore identified by Phoenix

then we go to the User Dumbledore.

CREATE TABLE House (

H\_Id INTEGER PRIMARY KEY,

House\_Name VARCHAR(50) NOT NULL,

House\_Points INTEGER

);

CREATE TABLE Student (

S\_Id INTEGER PRIMARY KEY,

Name VARCHAR(50),

CGPA DECIMAL(3, 2) CHECK (CGPA <= 4.00),

Blood\_Status VARCHAR(50),

H\_Id INTEGER REFERENCES House(H\_Id)

);

INSERT INTO Student

VALUES

(2, 'Harry', 3.45, 'Halfblood', 11)

INSERT INTO Student

VALUES

(7, 'Ron', 3.01, 'Pureblood', 11)

INSERT INTO Student

VALUES

(12, 'Hannah', NULL, 'Pureblood', 22)

INSERT INTO Student

VALUES

(17, 'Cedric', 3.78, 'Pureblood', 22)

INSERT INTO Student

VALUES

(22, 'Cho', 3.55, 'Muggleborn', 33)

INSERT INTO Student

VALUES

(27, 'Luna', 2.89, NULL, 33)

INSERT INTO Student

VALUES

(32, 'Draco', 3.88, 'Pureblood', 44)

INSERT INTO Student

VALUES

(37, 'Goyle', 3., 'Pureblood', 44)

INSERT INTO House

VALUES

(11, 'Gryffindor', 892);

INSERT INTO House

VALUES

(22, 'Hufflepuf', 785);

INSERT INTO House

VALUES

(33, 'Ravenclaw', 789);

INSERT INTO House

VALUES

(44, 'Slytherin', 850);

QUESTION & ANSWER:

1.Increase the cgpa of all students by 0.05

=

SELECT S\_Name, S\_CGPA, S\_CGPA+0.005

FROM Student;

2.Display the student name and their cgpa under 1 column

=

SELECT S\_Name || S\_CGPA AS "CGPA"

FROM Student;

3.Display S\_Name as Name and S\_CGPA as CGPA

=

SELECT S\_Name AS name, S\_CGPA CGPA

FROM Student;

4.Display the student name, those who have a C at the first of their name

=

SELECT S\_Name

FROM Student

WHERE S\_Name LIKE 'C%';

5.Display the student name who has no data of their CGPA

=

SELECT S\_Name , S\_CGPA

FROM Student

WHERE S\_CGPA IS NULL;

6.Reorder to ascending order the house name by their H\_Points

=

SELECT H\_Id ,H\_Name, H\_Points

FROM House

ORDER BY H\_Points;

7.Use SUBSTR function and manupulate the characters of student name

=

SELECT S\_Name , CONCAT (S\_Name , S\_BloodStatus), LENGTH(S\_Name ),

INSTR(S\_Name , 'o')

FROM Student

WHERE SUBSTR(S\_BloodStatus,1,5) = 'BloodStatus';

8.Calculate the Housepoint by multiplying with 10 and adding their corresponding H\_Id, then display the H\_Name, H\_Points,H\_Id

=

SELECT H\_Name, H\_Points, H\_Id , (H\_Points\*10)+NVL(H\_Id ,0)

FROM House;

9.Display the avg, min, max, and sum of H\_Points, those whose house points start with the numeric character 7

=

SELECT AVG(H\_Points), MAX(H\_Points),

MIN(H\_Points), SUM(H\_Points)

FROM House

WHERE H\_Points LIKE '7%';

10.Display the maximum cgpa of the students by grouping their house number

=

SELECT H\_No, max(S\_CGPA)

FROM Student

GROUP BY H\_No;

11.Display the greater average cgpa than 3.5 of the students by grouping their house number

=

SELECT H\_No, AVG(S\_CGPA)

FROM Student

GROUP BY H\_No;

HAVING AVG(S\_CGPA) > 3.5;