**Students Table creation**

CREATE TABLE Students(

s\_id int NOT NULL PRIMARY KEY,

s\_name varchar(255) NOT NULL,

blood\_status varchar(255),

cgpa float CHECK (cgpa<=4),

h\_no int REFERENCES House(h\_no)

);

**Data Insertaion into students table**

INSERT ALL

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (2, 'Harry', 3.45, 'Halfblood', 11)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (7, 'Ron', 3.01, 'Pureblood', 11)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (12, 'Hannah', NULL, 'Pureblood', 22)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (17, 'Cedric', 3.78, 'Pureblood', 22)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (22, 'Cho', 3.55, 'Muggleborn', 33)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (27, 'Luna', 2.89, NULL, 33)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (32, 'Draco', 3.88, 'Pureblood', 44)

INTO Students (s\_id, s\_name, cgpa, blood\_status, h\_no) VALUES (37, 'Goyle', 2.10, 'Pureblood', 44)

SELECT \* FROM dual;

**House Table creation**

CREATE TABLE House(

h\_no int NOT NULL PRIMARY KEY,

h\_name varchar(255) NOT NULL,

h\_points int

)

**Data Insertaion into students table**

INSERT INTO House (h\_no, h\_name, h\_points) VALUES (11, 'Gryffindor', 892);

INSERT INTO House (h\_no, h\_name, h\_points) VALUES (22, 'Hufflepuf', 785);

INSERT INTO House (h\_no, h\_name, h\_points) VALUES (33, 'Ravenclaw', 789);

INSERT INTO House (h\_no, h\_name, h\_points) VALUES (44, 'Slytherin', 850);

1. To get CPGA 4 how much point need every student

select 4 - CGPA AS "NEEDED POINT" FROM STUDENTS;

1. To get CGPA 4 how much point need every student.

select 4 - CGPA AS "NEEDED POINT" FROM STUDENTS;

1. calculate average CGPA

select Round(sum(cgpa)/count(\*), 2) AS "Avarage CGPA" from STUDENTS where cgpa is not null

1. select all students with proper alies

select s\_id as ID, s\_name AS "Name", blood\_status AS "Blood Status", CGPA, h\_no as "House NO" from students

1. display name and cgpa where cgpa is maximum according to house no

SELECT s\_name, cgpa from students where cgpa in (select max(cgpa) from STUDENTS group by h\_no)

1. select all where blood status include Pu at starting postion

select \* from STUDENTS where BLOOD\_STATUS like ('Pu%')

1. -- Dasplay name and cgpa where cgpa is gatter then avarage cgpa

select s\_name, cgpa from students where cgpa> (select avg(cgpa) from students);

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

SELECT h\_no FROM students GROUP BY h\_no HAVING AVG(CGPA) > 3.5;

1. display student name and house no and house ponst where house point is maximum

select s\_name, s.h\_no, h.h\_points

from students s left join house h

on s.h\_no = h.h\_no

where s.h\_no = (select h\_no from house where h\_points = (select max(h\_points) from house))

1. display student name and house no and house ponst where house point is minimum

select s\_name, s.h\_no, h.h\_points

from students s left join house h

on s.h\_no = h.h\_no

where s.h\_no = (select h\_no from house where h\_points = (select min(h\_points) from house))