**Hogwarts** is a school of witchcraft and wizardry. To ensure proper management of their data the renowned school has decided to maintain a database system. Out of many bidders your company was hired to accomplish the task. Your job is to create a relational database for Hogwarts from the requirements specified below:

RDBMS- Oracle 10g

Language-SQL

Log in as User System and create a ***user*** Dumbledore who has ***password*** Phoenix. Dumbledore is granted ***unlimited tablespace***. He is also granted the permission to ***create*** tables. After logging in with his username and password Dumbledore creates ***two tables*** i.e. Student and House. ***Student*** table has five columns containing information about students ***Identification Number, Name, CGPA, Blood Status and House Number***. ***House*** table has three columns containing information about ***House Number, House Name and House Points***. Here S\_Id, H\_Id are the ***primary key columns*** of Student and House table respectively. Student table also has a ***foreign key*** column H\_No. Constraint should be applied in such a way that CGPA cannot be greater than 4.00 and House name cannot be NULL. The two tables along with their inserted data are given below:

**Table: Student Table: House**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S\_Id | S\_Name | S\_CGPA | S\_BloodStatus | H\_No |
| 2 | Harry | 3.45 | Halfblood | 11 |
| 7 | Ron | 3.01 | Pureblood | 11 |
| 12 | Hannah |  | Pureblood | 22 |
| 17 | Cedric | 3.78 | Pureblood | 22 |
| 22 | Cho | 3.55 | Muggleborn | 33 |
| 27 | Luna | 2.89 |  | 33 |
| 32 | Draco | 3.88 | Pureblood | 44 |
| 37 | Goyle | 2.10 | Pureblood | 44 |

|  |  |  |
| --- | --- | --- |
| H\_Id | H\_Name | H\_Points |
| 11 | Gryffindor | 892 |
| 22 | Hufflepuf | 785 |
| 33 | Ravenclaw | 789 |
| 44 | Slytherin | 850 |

After creating the tables and inserting data based on provided requirements write Queries (Write down the question and also the answer) according to the following specification:

-using **ARITHMETIC** operator

-using **CONCATENATION** operator

-using **COLUMN ALIAS**

-using **LIKE** operator

-using **IS NULL** operator

-using **ORDER BY** clause

-using **SUBSTR** function

-using **NVL** function

-using **MAX** function

-using **SUM** function

-using **GROUP BY** clause

-using **HAVING** clause