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| **Name** | **ID** | **STUDENT SIGN** |
|  |  |  |

**Class Test 01**

**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. Give screenshot of the result of the query.You can add more Answer Box if required) 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

Answer: