**Lab 2: Relational Schema**

Complete the following exercises off-platform. This is ungraded and for your own learning. Write down your answers ....

**Relation 1**

Given the relation below, answer the questions:

**GradeBook**

| **ID** | **Name** | **Major** | **Quiz1** | **Quiz2** | **Quiz3** | **Quiz4** |
| --- | --- | --- | --- | --- | --- | --- |
| 001 | Harry | Magic | 90 | 90 | 80 | 100 |
| 002 | Hermione | Magic | 100 | 100 | 100 | 100 |
| 007 | Ron | Magic | 80 | 100 | 70 | 100 |
| 301 | Dobby | Service | 95 | 95 | 95 | 95 |
| 302 | Severus | Education | 90 | 90 | 99 | 100 |
| 399 | Albus | Management | 100 | 100 | 99 | 100 |

Now you know ID is the primary key, and Major is the foriegn key. Write a Relational Schema to represent the relation.

**Answer**:

**Gradebook (ID, Name, Major (fk), Quiz1, Quiz2, Quiz3, Quiz4)**

**Relation 2**

For the following relation, answer the questions.

**ProductDetails**

| **SKU** | **Name** | **VendorID** | **Price** | **Date** | **Quantity** | **Location** | **Description** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| KB320 | MouseMat | V1230 | 13.32 | 01/01/2019 | 3000 | A3 | Discontinued |
| YZ783 | MouseMat | V3002 | 10.00 | 03/01/2019 | 1000 | A3 | Discontinued |
| IU990 | Mouse | V3333 | 19.00 | 12/01/2019 | 700 | A1 |  |
| IU370 | Mouse | V3333 | 15.00 | 01/01/2020 | 500 | A1 |  |
| YZ783 | MouseMat | V3012 | 9.90 | 05/01/2020 | 1000 | A3 |  |
| YZ783 | MouseMat | V3012 | 8.90 | 05/01/2021 | 1000 | A3 |  |

Now you know (SKU, VendorID, Date) is the primary key, and VendorID is the foriegn key. Write a Relational Schema to represent the relation.

**Answer**:

**ProductDetails (SKU, VendorID (fk), Price, Date, Quantity, Location, Description)**