**Schemas**

**Login\_Tables:**

**Login as Tutor:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First\_Name | Last\_Name | Email | Password | Phone\_Number | Tutor\_ID |

**Login as Student:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First\_Name | Last\_Name | Email | Password | Phone\_Number | Student\_ID |

**Tutor\_Table:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tutor\_ID | First\_Name | Last\_Name | Age | Gender | Country | Online/Onsite | Description | Language | Rating | Fee |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Resume\_ID | Education | Degree | University | Year\_From | Year\_To | Subject\_ID | Sub\_Name | Sub\_Certificate |

|  |  |
| --- | --- |
| Sub\_Description | Sub\_Experience |

**Student\_Table:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Student\_ID | First\_Name | Last\_Name | Age | Gender | Country | Description | Language |

**Tuitions\_Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tuition\_ID | Tutor\_ID | Student\_ID | Subject\_ID | Date/Time | Description |

**Normalization**

**Login\_Tables**

**1NF:**

For the First Normal Form of the Login\_Tables, we are supposed to check if there are any multivalued attributes in the tables. As there is no data available, we cannot figure is there are any multivalued attributes.

**2NF:**

For Second Normal Form of Login\_Tables, we are supposed to check if there are any partial dependencies in the tables. But we could not find any partial dependencies in this table, so it is already in Second Normal Form.

**3NF:**

For the Third Normal Form, we need to check if there are any transitive dependencies in the table. As this is a simple table, there are no transitive dependencies as well, so the tables are in Third Normal Form already.

**Login as Tutor:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First\_Name | Last\_Name | Email | Password | Phone\_Number | Tutor\_ID(FK) |

**Login as Student:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First\_Name | Last\_Name | Email | Password | Phone\_Number | Student\_ID(FK) |

**Tutor\_Table**

**1NF:**

For the First Normal Form of the Tutor\_Table, we are supposed to check if there are any multivalued attributes in the table. As there is no data available, we cannot figure is there are any multivalued attributes.

**2NF:**

For Second Normal Form of Tutor\_Table, we are supposed to check if there are any partial dependencies in the table. In Tutor\_Table, we can find a few partial dependencies and we can remove it by making multiple tables instead of just one.

**Tutor\_Table:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tutor\_ID | First\_Name | | Last\_Name | | Age | Gender | Country | Description | Languages | Rating | Fee/Hr |
| Online/Onsite | | Resume\_ID(FK) | |

**Resume\_Table:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Resume\_ID | Education | Degree | University | Year\_From | Year\_To | TutorID(FK) |

**Subject\_Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Subject\_ID | Name | Certificate | Description | Experience | Tutor\_ID(FK) |

**3NF:**

For the Third Normal Form, we need to check if there are any transitive dependencies in the table. As there are no transitive properties in the above tables, we can say that it is in Third Normal Form.

**Student\_Table**

**1NF:**

For the First Normal Form of the Student\_Table, we are supposed to check if there are any multivalued attributes in the table. As there is no data available, we cannot figure is there are any multivalued attributes.

**2NF:**

For Second Normal Form of Student\_Table, we are supposed to check if there are any partial dependencies in the table. But we could not find any partial dependencies in this table, so it is already in Second Normal Form.

**3NF:**

For the Third Normal Form, we need to check if there are any transitive dependencies in the table. As this is a simple table, there are no transitive dependencies as well, so the tables are in Third Normal Form already.

**Student\_Table:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Student\_ID | First\_Name | Last\_Name | Age | Gender | Country | Description | Language |

**Tuitions\_Table**

**1NF:**

For the First Normal Form of the Tuitions\_Table, we are supposed to check if there are any multivalued attributes in the table. As there is no data available, we cannot figure is there are any multivalued attributes.

**2NF:**

For Second Normal Form of Tuitions\_Table, we are supposed to check if there are any partial dependencies in the table. But we could not find any partial dependencies in this table, so it is already in Second Normal Form.

**3NF:**

For the Third Normal Form, we need to check if there are any transitive dependencies in the table. As this is a simple table, there are no transitive dependencies as well, so the tables are in Third Normal Form already.

**Tuition\_Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tuition\_ID | Tutor\_ID(FK) | Student\_ID(FK) | Subject\_ID(FK) | Date/Time | Description |