Name: ………………………………………………………………… ID: ……………………………………………………………..

1. Create a new database by ( MS Access) named "Hospital" .
2. Create the following tables, and add fields as below with appropriate data types :

* 1st table named " doctors":

|  |  |  |
| --- | --- | --- |
| **Field** | **Data type** | **n.b.** |
| D\_ID | number | Primary key |
| Name | Text | Set index, no duplicate, in ascending order |
| Specialization | Text | Add validation rule, so that only the four main specialization can be added" Surgeon, Ophthalmologist, Pediatrician, Gynecologist", and add a validation text explaining rule. |

* 2nd table named " patients":

|  |  |  |
| --- | --- | --- |
| **Field** | **Data type** | **n.b.** |
| P\_ID | number | Primary key |
| Name | text |  |
| Inpatient | Yes/no |  |
| D\_ID | number |  |
| R\_NO | number |  |

* 3rd table named " rooms":

|  |  |  |
| --- | --- | --- |
| **Field** | **Data type** | **n.b.** |
| R\_NO | number | Primary key |
| type | text |  |
| extension | number |  |

1. Establish a relationship between :

* the Doctors' table and Patients' table using the D\_ID.
* The Patients' table and Rooms' table using R\_NO

1. Enter data as shown below:

* Doctors:

|  |  |  |
| --- | --- | --- |
| D\_ID | Name | Specialization |
| 200 | Fahd | Ophthalmologist |
| 300 | Ali | Surgeon |
| 400 | Badr | Pediatrician |

* Patients:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P\_ID | Name | Inpatient | D\_ID | R\_NO |
| 1010 | Waleed | Yes | 300 | 2 |
| 1020 | Rayan | Yes | 300 | 4 |
| 1030 | Nor | No | 200 | 3 |
| 1040 | Jamal | No | 400 | 1 |

* Rooms:

|  |  |  |
| --- | --- | --- |
| R\_NO | Type | Extension |
| 1 | Single | 5001 |
| 2 | Single | 5002 |
| 3 | Double | 5003 |
| 4 | Single | 5004 |

1. Find out how many patients have been treatment with doctor "Ali", show patent's name, room number, room extension, and named query "D\_Ali".
2. Create forms for each table , and each form must be have:

* three buttons" new record, delete record, save record"
* Label with form's name.
* logo

1. create a report based on "D\_Ali" query , place all available fields on the report , and draw a text box in the report footer area with a label " signature" .

Good Luck ☺