**MRA - Digital Health Advisor Questions**

**Instructions**

* Attempt all questions
* **You must submit your work on the GitHub repository link.**
* **Use DHIS2 instance** [**https://echotst2.jsi.com**](https://echotst2.jsi.com)

**Username:interviewee**

**Password:Interview2012!**

Time: **1 hr 30 min**

Qn 1.

The Ministry of Health Uganda and Ministry of Agriculture are developing a strategy to implement data sharing across the two ministries. In their strategy, they are proposing to implement an interoperability layer which will be used to ensure the datasets are synchronized across the ministries. Briefly describe how the interoperability layer will be implemented to ensure common data is shared among the two ministries. **(10 marks)**

Qn 2:

Write an DHIS2 SQL view to retrieve aggregated data from a DHIS2 instance. The minimum columns required are organisationunit uid, organisationunit name, data element uid, data element name, periodid, value, category option combo name, category option combo uid.

The data must be sorted in ascending order by organisation name and periodid. **(5 marks)**

Qn 3:

Given a data collection below, design an exact dataset in the DHIS2 instance provided. All metadata must be pre-appended with your first name. **(15 marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Indicator Name** | **Indicator code** | **Diesel** | | **Petrol** | |
|  |  | **Fuso** | **Tata** | **Benz** | **BMW** |
| Number of tyres | TRCAR001 |  |  |  |  |
| Number of doors | TRCAR003 |  |  |  |  |

Qn 4:

Write a function using any web programming language of your choice to dynamically assign the value of firstName to a field called **fullName** given data of the following structure. **(10 marks)**

**{**

**"users": [**

**{**

**"id": "1",**

**"firstName": "admin2",**

**"name": "admin2 admin"**

**},**

**{**

**"id": "2",**

**"firstName": "admin2",**

**"name": "admin admin"**

**},**

**{**

**"id": "3",**

**"firstName": "Demo",**

**"name": "Demo Tracker"**

**}**

**]**

**}**

END