

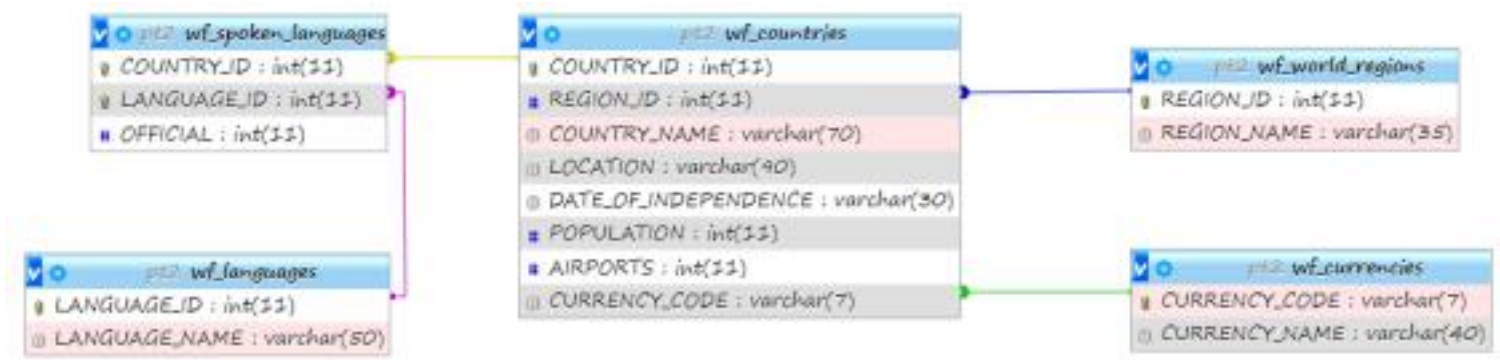
POST-TEST 2 Praktikum Sistem Basis Data

DDL TABLE BERELASI

Waktu Pengerjaan : 14 September 2022

Petunjuk Pengumpulan :

1. Nama file : PT2_[NIM]_GRUP.pdf Co : PT2_71210000_C.pdf
2. Jawaban dibuat berupa Screenshot dari command SQL dan hasilnya.



Nama Tabel	Nama Atribut	Tipe Data	Auto Increment	Not Null	PK/FK	FK Reference Table
wf_currencies	CURRENCY_CODE	VARCHAR(7)		Y	PK	
	CURRENCY_NAME	VARCHAR(40)		Y		
wf_languages	LANGUAGE_ID	INT(11)	Y	Y	PK	
	LANGUAGE_NAME	VARCHAR(50)		Y		
wf_world_regions	REGION_ID	INT(11)	Y	Y	PK	
	REGION_NAME	VARCHAR(35)		Y		
wf_countries	COUNTRY_ID	INT(11)		Y	PK	

	REGION_ID	INT(11)		Y	FK	wf_world_r eg ions
	COUNTRY_NAME	VARCHAR(70)		Y		
	LOCATION	VARCHAR(90)		N		
	DATE_OF_INDEPENDENCE	VARCHAR(30)		N		
	POPULATION	INT(11)		N		
	AIRPORTS	INT(11)		N		

	CURRENCY_CODE	VARCHAR(7)		Y	FK	wf_curren cie s
wf_spoken_languages	COUNTRY_ID	INT(11)		Y	PK, FK1	wf_countrie s
	LANGUAGE_ID	INT(11)		Y	PK, FK2	wf_languages
	OFFICIAL	INT(11)		N		

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1. Buatlah

a) Database bernama PT2_NIM Co: **PT2_71210000**

```
CREATE DATABASE PT2_71210739;
```

```
MariaDB [(none)]> CREATE DATABASE PT2_71210739;
Query OK, 1 row affected (0.005 sec)
```

b) Tabel(1,5 poin)

```
CREATE TABLE wf_currencies (
  CURRENCY_CODE VARCHAR(7) NOT NULL PRIMARY KEY,
  CURRENCY_NAME VARCHAR(40) NOT NULL
);
```

```
Database changed
MariaDB [PT2_71210739]> CREATE TABLE wf_currencies (
  -> CURRENCY_CODE VARCHAR(7) NOT NULL PRIMARY KEY,
  -> CURRENCY_NAME VARCHAR(40) NOT NULL
  -> );
Query OK, 0 rows affected (0.017 sec)
```

```
CREATE TABLE wf_languages (
  LANGUAGE_ID INT(11) AUTO_INCREMENT NOT NULL PRIMARY KEY,
  LANGUAGE_NAME VARCHAR(50) NOT NULL
);
```

```
MariaDB [PT2_71210739]> CREATE TABLE wf_languages (
  -> LANGUAGE_ID INT(11) AUTO_INCREMENT NOT NULL PRIMARY KEY,
  -> LANGUAGE_NAME VARCHAR(50) NOT NULL
  -> );
Query OK, 0 rows affected (0.013 sec)
```

```
CREATE TABLE wf_world_regions (
  REGION_ID INT(11) AUTO_INCREMENT NOT NULL PRIMARY KEY,
  REGION_NAME VARCHAR(35) NOT NULL
);
```

```
MariaDB [PT2_71210739]> CREATE TABLE wf_world_regions (
  -> REGION_ID INT(11) AUTO_INCREMENT NOT NULL PRIMARY KEY,
  -> REGION_NAME VARCHAR(35) NOT NULL
  -> );
Query OK, 0 rows affected (0.013 sec)
```

```
CREATE TABLE wf_countries (
  COUNTRY_ID INT(11) NOT NULL PRIMARY KEY,
  REGION_ID INT(11) NOT NULL,
  COUNTRY_NAME VARCHAR(70) NOT NULL,
  LOCATION VARCHAR(90),
  DATE_OF_INDEPENDENCE VARCHAR(30),
  POPULATION INT(11),
  AIRPORTS INT(11),
  CURRENCY_CODE VARCHAR(7) NOT NULL,

  CONSTRAINT FK_1
  FOREIGN KEY (REGION_ID)
  REFERENCES wf_world_regions(REGION_ID),

  CONSTRAINT FK_2
  FOREIGN KEY (CURRENCY_CODE)
  REFERENCES wf_currencies(CURRENCY_CODE)
```

```
);
```

```
MariaDB [PT2_71210739]> CREATE TABLE wf_countries (  
  ->   COUNTRY_ID INT(11) NOT NULL PRIMARY KEY,  
  ->   REGION_ID INT(11) NOT NULL,  
  ->   COUNTRY_NAME VARCHAR(70) NOT NULL,  
  ->   LOCATION VARCHAR(90),  
  ->   DATE_OF_INDEPENDENCE VARCHAR(30),  
  ->   POPULATION INT(11),  
  ->   AIRPORTS INT(11),  
  ->   CURRENCY_CODE VARCHAR(7) NOT NULL,  
  ->  
  ->   CONSTRAINT FK_1  
  ->   FOREIGN KEY (REGION_ID)  
  ->   REFERENCES wf_world_regions(REGION_ID),  
  ->  
  ->   CONSTRAINT FK_2  
  ->   FOREIGN KEY (CURRENCY_CODE)  
  ->   REFERENCES wf_currencies(CURRENCY_CODE)  
  -> );  
Query OK, 0 rows affected (0.013 sec)
```

```
CREATE TABLE wf_spoken_languages (  
  COUNTRY_ID INT(11) NOT NULL,  
  LANGUAGE_ID INT(11) NOT NULL,  
  OFFICIAL INT(11),  
  
  CONSTRAINT PK_1  
  PRIMARY KEY (COUNTRY_ID, LANGUAGE_ID),  
  
  CONSTRAINT FK_1  
  FOREIGN KEY (COUNTRY_ID)  
  REFERENCES wf_countries(COUNTRY_ID),  
  
  CONSTRAINT FK_2  
  FOREIGN KEY (LANGUAGE_ID)  
  REFERENCES wf_languages(LANGUAGE_ID)  
);
```

2. Ubahlah struktur tabel menjadi **(1,5 poin)**:

a. Tambahkan atribut COMMENTS (varchar(100)) pada tabel wf_spoken_languages.

(0,5)

```
ALTER TABLE wf_spoken_languages  
ADD COMMENTS varchar(100);
```

- b. Ubah tipe data atribut AIRPORTS pada table wf_countries menjadi varchar(25). **(0,5)**
- c. Tambahkan nilai pasti pada LOCATION menjadi "WORLD" agar bisa menggantikan value apabila value yang dimasukkan adalah null. **(0,5)**