**Reo Sahobby**

**Python Developer**

**Yogyakarta**

**Jawaban Tes Teknikal**

1. CREATE TABLE keluarga

(

id INT NOT NULL AUTO\_INCREMENT,

nama VARCHAR(255) NOT NULL,

jenis\_kelamin VARCHAR(255) NOT NULL,

nama\_ortu VARCHAR(255),

nama\_kakek VARCHAR(255),

PRIMARY KEY (id)

)ENGINE=InnoDB;

1. INSERT INTO keluarga (nama, jenis\_kelamin, nama\_ortu, nama\_kakek)

VALUES ("Budi", "Laki-Laki", null, null),

("Dedi", "Laki-Laki", "Budi", null),

("Dodi", "Laki-Laki", "Budi", null),

("Dede", "Laki-Laki", "Budi", null),

("Dewi", "Perempuan", "Budi", null),

("Feri", "Laki-Laki", "Dedi", "Budi"),

("Farah", "Perempuan", "Dedi", "Budi"),

("Gugus", "Laki-Laki", "Dodi", "Budi"),

("Gandi", "Laki-Laki", "Dodi", "Budi"),

("Hani", "Perempuan", "Dede", "Budi"),

("Hana", "Perempuan", "Dede", "Budi");

1. SELECT id, nama, jenis\_kelamin FROM keluarga WHERE nama\_ortu="Budi";
2. SELECT id, nama, jenis\_kelamin, nama\_ortu FROM keluarga WHERE nama\_kakek="Budi" ORDER BY nama\_ortu;
3. SELECT id, nama, jenis\_kelamin, nama\_ortu, nama\_kakek FROM keluarga WHERE nama\_kakek="Budi" AND jenis\_kelamin="Perempuan" ORDER BY nama;
4. SELECT k.id, k.nama, k.jenis\_kelamin, k.nama\_ortu FROM keluarga AS k WHERE k.jenis\_kelamin="Perempuan" AND k.nama != (SELECT o.nama\_ortu FROM keluarga AS o WHERE o.nama="Farah") AND k.nama\_ortu="Budi";
5. SELECT k.id, k.nama, k.jenis\_kelamin, k.nama\_ortu FROM keluarga AS k WHERE k.jenis\_kelamin="Laki-Laki" AND k.nama\_kakek = (SELECT o.nama\_kakek FROM keluarga AS o WHERE o.nama="Hani") AND k.nama != "Hani";
6. Rancangan API
7. Create/insert data

url endpoint = localhost:5000/tambahdata

methods = POST

parameter body json =

{

"nama":"...",

"jenis\_kelamin":"...",

"nama\_ortu":"...",

"nama\_kakek":"..."

}

hasil =

{

"message": "data berhasil ditambahkan",

"status": "OK"

}

1. Read Data

url endpoint = localhost:5000/allkeluarga

methods = GET

hasil =

[{

“id” : 1,

“nama” : “Budi”,

“jenis\_kelamin” : “Laki-Laki”,

“nama\_ortu” : null,

“nama\_kakek” : null

},

{

...

}]

url enpoint = localhost:5000/dataanak

methods = POST

parameter =

{

“nama\_ortu” : “...”

}

Hasil =

[{

“id” : “...”,

“nama” : “...”,

“jenis\_kelamin” : “...”,

“nama\_ortu” : “...”,

“nama\_kakek” : “...”

},

{

...

}]

1. Update Data

url endpoint = localhost:5000/ubahdata

methods = POST

parameter =

{

“id” : ...,

“nama” : “...”,

“jenis\_kelamin” : “...”,

“nama\_ortu” : “...”,

“nama\_kakek” : “...”

},

Hasil =

{

“status” : “OK”,

“message” : “data berhasil dihapus”

}

1. Delete Data

url endpoint = localhost:5000/hapusdata

methods = POST

parameter =

{

“id” : ...

}

Hasil =

{

“status” : “OK”,

“message” : “data berhasil dihapus”

}

1. Aplikasi CRUD dalam bentuk API dapat dilihat pada link https://github.com/rshby/silsilah\_keluarga
2. Visualisasi Data

Diagram

Description automatically generated