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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;
2. 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");
3. SELECT id, nama, jenis_kelamin FROM keluarga WHERE
 nama_ortu="Budi";
4. SELECT id, nama, jenis_kelamin, nama_ortu FROM keluarga WHERE
 nama_kakek="Budi" ORDER BY nama_ortu;
5. SELECT id, nama, jenis_kelamin, nama_ortu, nama_kakek FROM
 keluarga WHERE nama_kakek="Budi" AND jenis_kelamin="Perempuan"
 ORDER BY nama;
6. 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";
7. 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";
```

8. Rancangan API

a. 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"
}
```

b. 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 endpoint = localhost:5000/dataanak
```

```
methods = POST
```

```
parameter =
```

```
{
  "nama_ortu" : "..."
}
```

```
Hasil =  
[  
  {  
    "id" : "...",  
    "nama" : "...",  
    "jenis_kelamin" : "...",  
    "nama_ortu" : "...",  
    "nama_kakek" : "..."  
  },  
  {  
    ...  
  }  
]
```

c. 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"  
}
```

d. Delete Data

url endpoint = localhost:5000/hapusdata

methods = POST

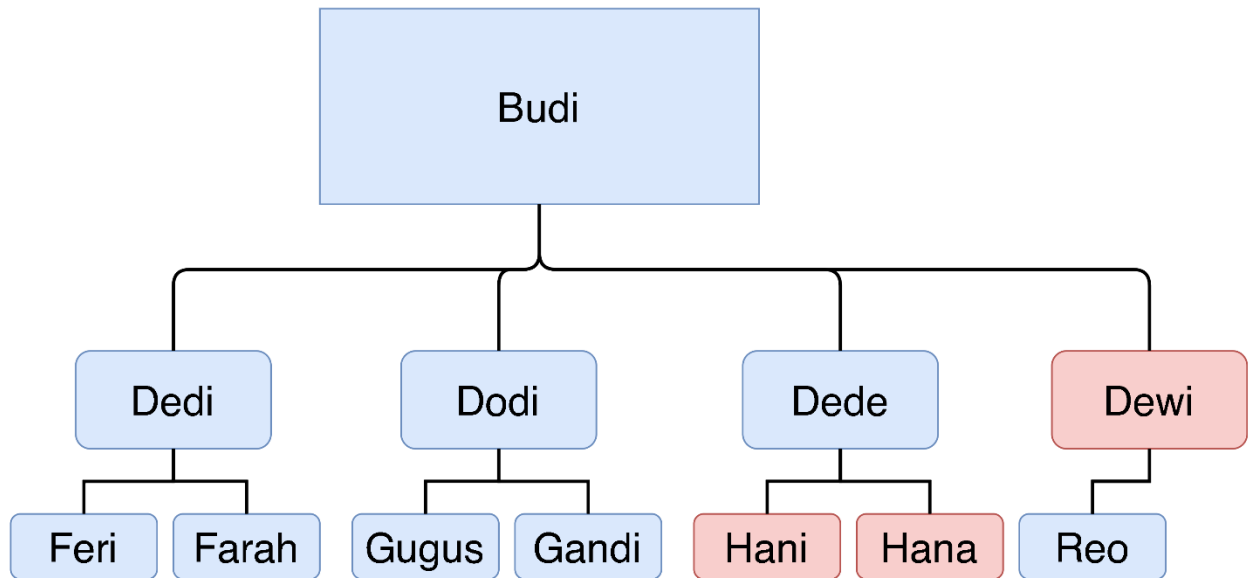
parameter =

```
{  
  "id" : ...  
}
```

Hasil =

```
{  
  "status" : "OK",  
  "message" : "data berhasil dihapus"  
}
```

9. Aplikasi CRUD dalam bentuk API dapat dilihat pada link
https://github.com/rshby/silsilah_keluarga
10. Visualisasi Data



Jawaban Hackerank

1. Waktu terakhir mengerjakan: Senin, 10 Januari 2022 pukul 13.36
2. Link hackerank <https://www.hackerrank.com/reoshby>