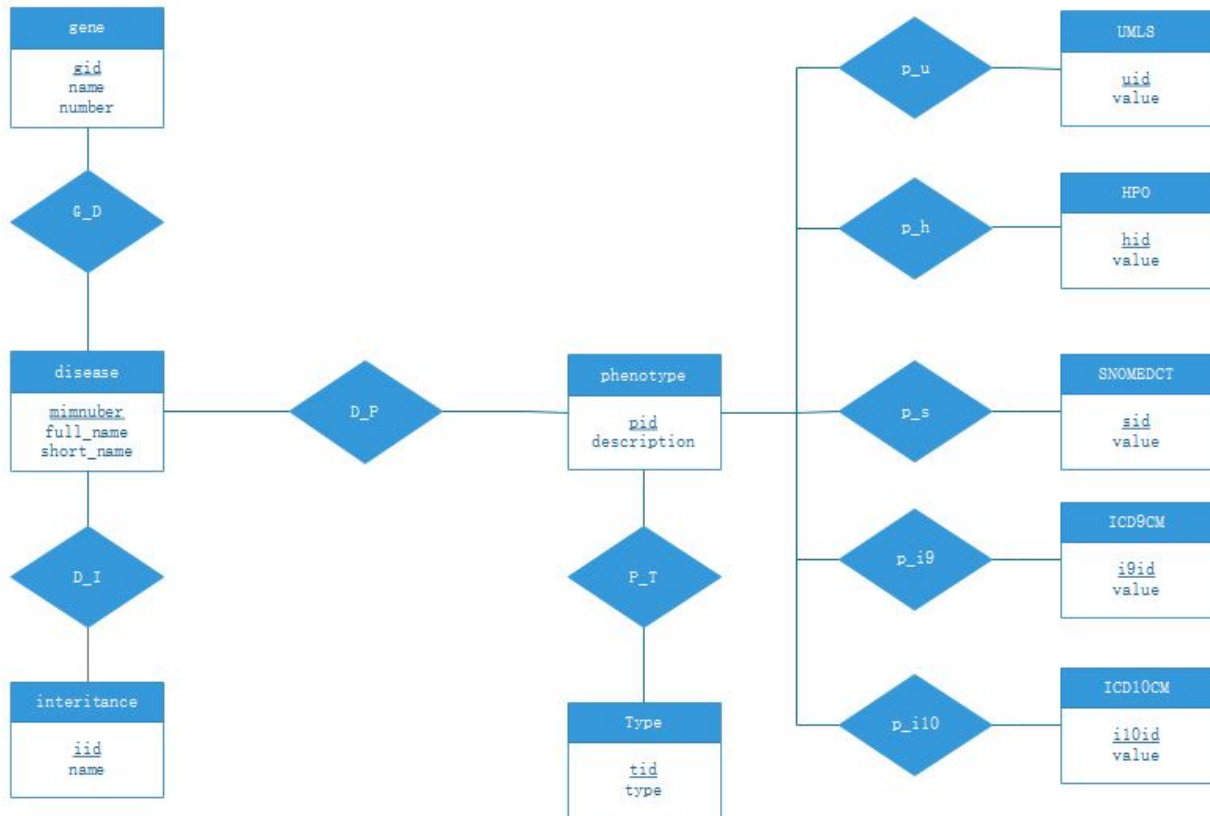


# 数据库设计1.0

## ER图



## SQL

- 基因表

```
create table gene(  
  gid int,  
  name varchar(40),  
  sequence varchar(40),  
  
  primary key(gid)  
)
```

- 基因-疾病联系表

```
create table g_d(  
  id int,  
  gid int,  
  mimnumber int,  
  
  primary key(id)  
)
```

- 疾病表

```
create table disease(  
  mimnumber int,  
  full_name varchar(160),  
  short_name varchar(40),  
  
  primary key(mimnumber)  
)
```

- 疾病-遗传方式表

```
create table d_i(  
  id int,  
  mimnumber int ,  
  iid int,  
  
  primary key(id)  
)
```

- 遗传方式表

```
create table inheritance(  
  iid int ,  
  name varchar(100),  
  
  primary key(id)  
)
```

- 疾病-症状表

```
create table d_f(  
  id int ,  
  mimnumber int,  
  pid int ,  
  
  primary key(id)  
)
```

- 表型表

```
create table phenotype(  
  pid int,  
  description TEXT,  
  
  primary key(pid)  
)
```

- 表型-类型表

```
create table p_t(  
  id int,  
  pid int,  
  tid int,  
  
  primary key(id)  
)
```

- 类型表

```
create table type(  
  tid int,  
  type varchar(40),  
  
  primary key(id)  
)
```

- HPO

```
create table hpo(  
  hid int,  
  value varchar(20),  
  
  primary key(hid)  
)
```

- 表型与HPO联系表

```
create table p_h(  
  id int ,  
  pid int ,  
  hid int ,  
  
  primary key(id)  
)
```

- UMLS

```
create table umls(  
  uid int,  
  value varchar(20),  
  
  primary key(uid)  
)
```

- 表型与UMLS联系表

```
create table p_u(  
  id int ,  
  pid int ,  
  uid int ,  
  
  primary key(id)  
)
```

- SNOMEDCT

```
create table snomedct(  
  sid int ,  
  value varchar(20),  
  
  primary key(sid)  
)
```

- 表型与SNOMEDCT联系表

```
create table p_s(  
  id int ,  
  sid int,  
  pid int,  
  
  primary key(id)  
)
```

- ICD9CM

```
create table icd9cm(  
  i9id int,  
  value varchar(20),  
  
  primary key(i9id)  
)
```

- 表型与ICD9CM联系表

```
create table p_i9(  
  id int ,  
  i9id int,  
  pid int,  
  
  primary key(id)  
)
```

- ICD10CM

```
create table icd9cm(  
  i10id int,  
  value varchar(20),  
  
  primary key(i10id)  
)
```

- 表型与ICD10CM联系表

```
create table p_i10(  
  id int ,  
  i10id int,  
  pid int,  
  
  primary key(id)  
)
```