

COMP9315 Sample Exam, Q2 Sample Solution

```
I = select oid from pg_type where name = 'int4';
```

```
T = select oid from pg_type where name = 'text';
```

```
create type Gender as enum ('male','female');
```

```
pg_type(oid, typename, typtype, typeisdefined, typerelid)
(G, 'gender', 'e', true, 0)
```

```
pg_enum(enumtypeid, enumlabel)
(G, 'male')
(G, 'female')
(G, 'none of your business')
```

```
create table People (
    id      integer primary key,
    name    text not null,
    sex     Gender -- may be null
);
```

```
pg_class(oid, relname, relkind, relhasindex, relnatts, relhaspkey)
(P, 'people', 'r', true, 3, true)
(PK, 'people_pkey', 'i', false, 1, false)
```

```
pg_attribute(attrelid, attname, atttypeid, attlen, attnum, attnotnull)
(P, 'id', I, 4, 1, true)
(P, 'name', T, -1, 2, true)
(P, 'sex', G, 4, 3, false)
(PK, 'id', I, 4, 1, false)
```

```
pg_type(typname, typlen, typtype, typerelid)
(PT, 'people', -1, 'c', P)
```

```
pg_index(indexrelid, indrelid, indnatts, indisunique, indisprimary)
(PK, P, 1, true, true)
```