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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, typname, typtype, typeisdefined, typerelid)
   (G, 'gender', 'e', true, 0)

pg_enum(enumtypid, 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, atttypid, 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)
```