[Instructions] [Notes] [PostgreSQL] [C] [Q1] [Q2] [Q3] [Q4] [Q5] [Q6] [Q7] [Q8]

Question 2 (10 marks)

Consider the following SQL statements to create a new data type and table:

```
create type Gender as enum ('male', 'female', 'none of your
business');

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

Show the tuples that would be inserted into the system catalog tables

a. Aestsignenvente Project Exam Help

b. when the People table is created

Since there are many tables and columns shown below:

```
pg_attribute oid of the atmant, ptypid offer attnum, attnotnull)

pg_class(oid, relname, relkind, relnatts, relhaspkey, relhasindex)

pg_enum(enumtypid, enumlabel)

pg_index(indexrelid, indrelid, indnatts, indisunique, indisprimary)

pg_type(oid, typname, typtype, typisdefined, typrelid)
```

Some tuples will contain foreign keys that are OIDs in other tables; indicate OID values by distinct upper-case letters (e.g. A, B, etc.) You may assume that the OID values for the builtin data types integer and text are defined as follows:

```
X = select oid from pg_type where typname='int4'
Y = select oid from pg_type where typname='text'
```

Note that some of the field values in some tuples may be NULL.

The PostgreSQL catalog tables are described in detail in Chapter 48 of the PostgreSQL documentation. Notes: variable-length types and composite types have typlen = -1; enumerated types have typlen = 4; boolean values may be written as true and false; primary key indexes are always called $table_pkey$; 0 is *not* the same value as NULL.

Instructions:

- Type your answer to this question into the file called q2.txt
- Submit via: **give cs9315 sample_q2 q2.txt** or via: Webcms3 > exams > Sample Exam > Submit Q2 > Make Submission

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