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

Question 3 (6 marks)

Consider the following SQL statements to create three tables:

```
create table Students (
   id
          integer primary key,
          text not null
   name
);
create table Courses (
   id
          integer primary key,
   code
          char(8),
          text not null
   title
      signment Project Exam Help
create table Enrolments (
         https://poweoder.com
   course integer references Courses(id),
          integer check (mark between 0 and 100),
         Add chanat (DOWECOCON', 'HD')),
   primary key (stude, course)
);
```

Consider also that you insert 1000 tuples into each of the Students and Courses tables, and insert exactly 4 Enrolments tuples for each student.

The pg_class catalog table has a field reltuples that indicates the total number of tuples stored in the pages of the relation. This includes tuples that have been deleted, but not yet vacuum'd.

For each parts (a), (b) and (c), what values will be produced from the queries:

```
select count(*) from Enrolments;
select reltuples from pg_class where relname='enrolments';
```

- a. after all the tuples are initially inserted (as above)
- b. after the SQL statement delete from Enrolments where stude = 1234567; (but before any vaccuuming)
- c. after the SQL statement delete from Enrolments; (but before any vaccuuming)
- d. if the SQL statement drop table Enrolments; is executed, which of the following tables in the PostgreSQL catalog will be modified:

```
pg_aggregate, pg_attrdef, pg_attribute, pg_class,
pg_collation,

pg_constraint, pg_conversion, pg_database, pg_depend,
pg_enum,

pg_foreign_table, pg_index, pg_proc, pg_range, pg_rewrite,
pg_sequence, pg_transform, pg_tablespace, pg_trigger,
pg_type
```

Note: incorrect table names are penalised; just writing them all scores zero.

The PostgreSQL catalog tables are described in detail in Chapter 48 of the PostgreSQL documentation.

Instructions:

- Type your answer to this question into the file called q3.txt
- Submit via: **give cs9315 exam_q3 q3.txt** or via: Webcms3 > exams > Final Exam > Submit Q3 > Make Submission

End of Question

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