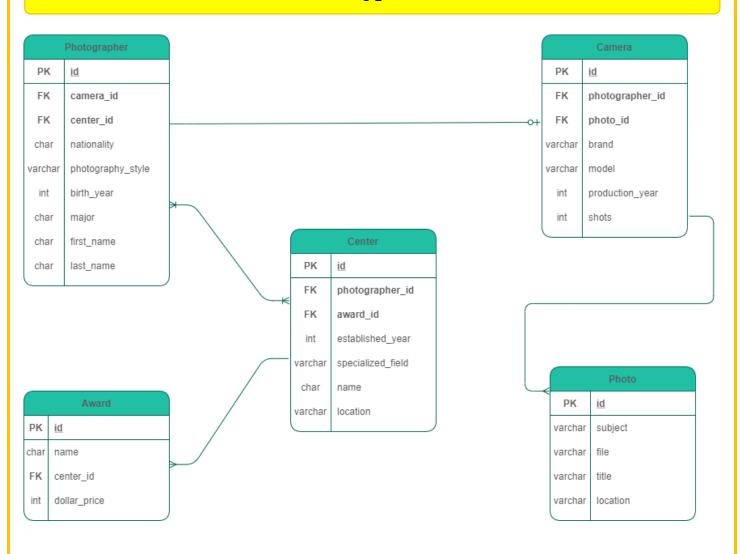


1-2



A. Connecting to the database

```
postgres=# \c photography You are now connected to database "photography" as user "postgres".
```

B. Creating tables

```
photography=# CREATE TABLE PHOTO<mark>(</mark>ID INT PRIMARY KEY NOT NULL, SUBJECT VARCHAR(30) NOT NULL, FILE VARCHAR(30) NOT NULL, TITLE VARCHA
R(30) NOT NULL, LOCATION VARCHAR(30) NOT NULL);
CREATE TABLE
```

photography=# <mark>CREATE TABLE CAMERA</mark> ID INT PRIMARY KEY NOT NULL, BRAND VARCHAR(20) NOT NULL, MODEL VARCHAR(20) NOT NULL, PRODUCTION_ EAR INT NOT NULL, SHOTS INT NOT NULL); CREATE TABLE

photography=# CREATE TABLE PHOTOGRAPHER ID INT PRIMARY KEY NOT NULL, NATIONALITY CHAR(20) NOT NULL, PHOTOGRAPHY_STYLE VARCHAR(20)
OT NULL, BIRTH_YEAR INT NOT NULL, MAJOR CHAR(20) NOT NULL, FIRST_NAME CHAR(20) NOT NULL, LAST_NAME CHAR(20) NOT NULL);
CREATE TABLE

photography=# CREATE TABLE CENTER ID INT PRIMARY KEY NOT NULL, NAME CHAR(20) NOT NULL, LOCATION VARCHAR(30) NOT NULL, ESTABLISHED_Y EAR INT NOT NULL, SPECIALIZED_FIELD VARCHAR(30) NOT NULL); CREATE TABLE

photography=# CREATE TABLE AWARD ID INT PRIMARY KEY NOT NULL, NAME CHAR(20) NOT NULL, DOLLAR_PRICE INT NOT NULL);
CREATE TABLE

C. Adding the foreign keys to the tables

```
photography=# ALTER TABLE CAMERA ADD COLUMN PHOTOGRAPHER_ID INT NOT NULL REFERENCES PHOTOGRAPHER(ID);
ALTER TABLE
photography=# ALTER TABLE CAMERA ADD COLUMN PHOTO_ID INT NOT NULL REFERENCES PHOTO(ID);
ALTER TABLE
```

```
photography=#<mark>ALTER TABLE CENTER</mark> ADD COLUMN PHOTOGRAPHER_ID INT NOT NULL REFERENCES PHOTOGRAPHER(ID);
ALTER TABLE
photography=# ALTER TABLE CENTER ADD COLUMN AWARD_ID INT NOT NULL REFERENCES AWARD(ID);
ALTER TABLE
```

photography=# ALTER TABLE PHOTOGRAPHER ADD COLUMN CAMERA_ID INT NOT NULL REFERENCES CAMERA(ID); ALTER TABLE photography=# ALTER TABLE PHOTOGRAPHER ADD COLUMN CENTER_ID INT NOT NULL REFERENCES CENTER(ID); ALTER TABLE

photography=# <mark>ALTER TABLE AWARD</mark> ADD COLUMN CENTER_ID INT NOT NULL REFERENCES CENTER(ID); ALTER TABLE

D. Watching details of the tables

```
photography=# \d photo

Table "public.photo"

Column | Type | Collation | Nullable | Default

id | integer | | not null |
subject | character varying(30) | | not null |
file | character varying(30) | | not null |
title | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
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location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | character varying(30) | | not null |
location | c
```

```
Table "public.center"

Column Type Collation | Nullable | Default

id | integer | | not null |
name | character(20) | | not null |
location | character varying(30) | | not null |
specialized_field | character varying(30) | | not null |
specialized_field | character varying(30) | | not null |
specialized_field | integer | | not null |
specialized_field | integer | | not null |
award_id | integer | | not null |
sundexes:
   "center_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
   "center_award_id_ffkey" FOREIGN KEY (award_id) REFERENCES award(id)
   "center_award_id_ffkey" FOREIGN KEY (photographer_id) REFERENCES photographer(id)

Referenced by:
   TABLE "award" CONSTRAINT "award_center_id_fkey" FOREIGN KEY (center_id) REFERENCES center(id)
   TABLE "photographer" CONSTRAINT "photographer_center_id_fkey" FOREIGN KEY (center_id) REFERENCES center(id)
```