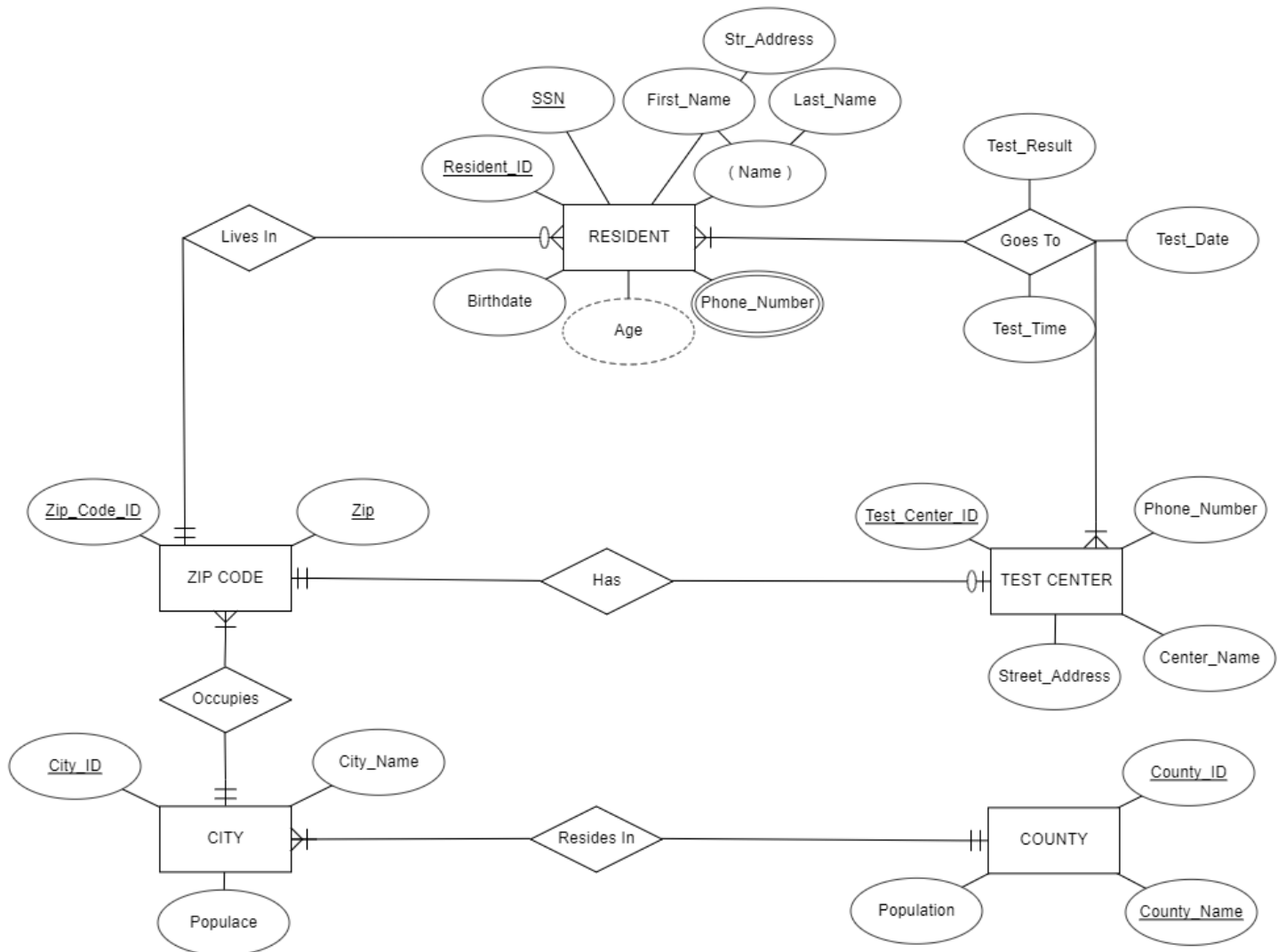
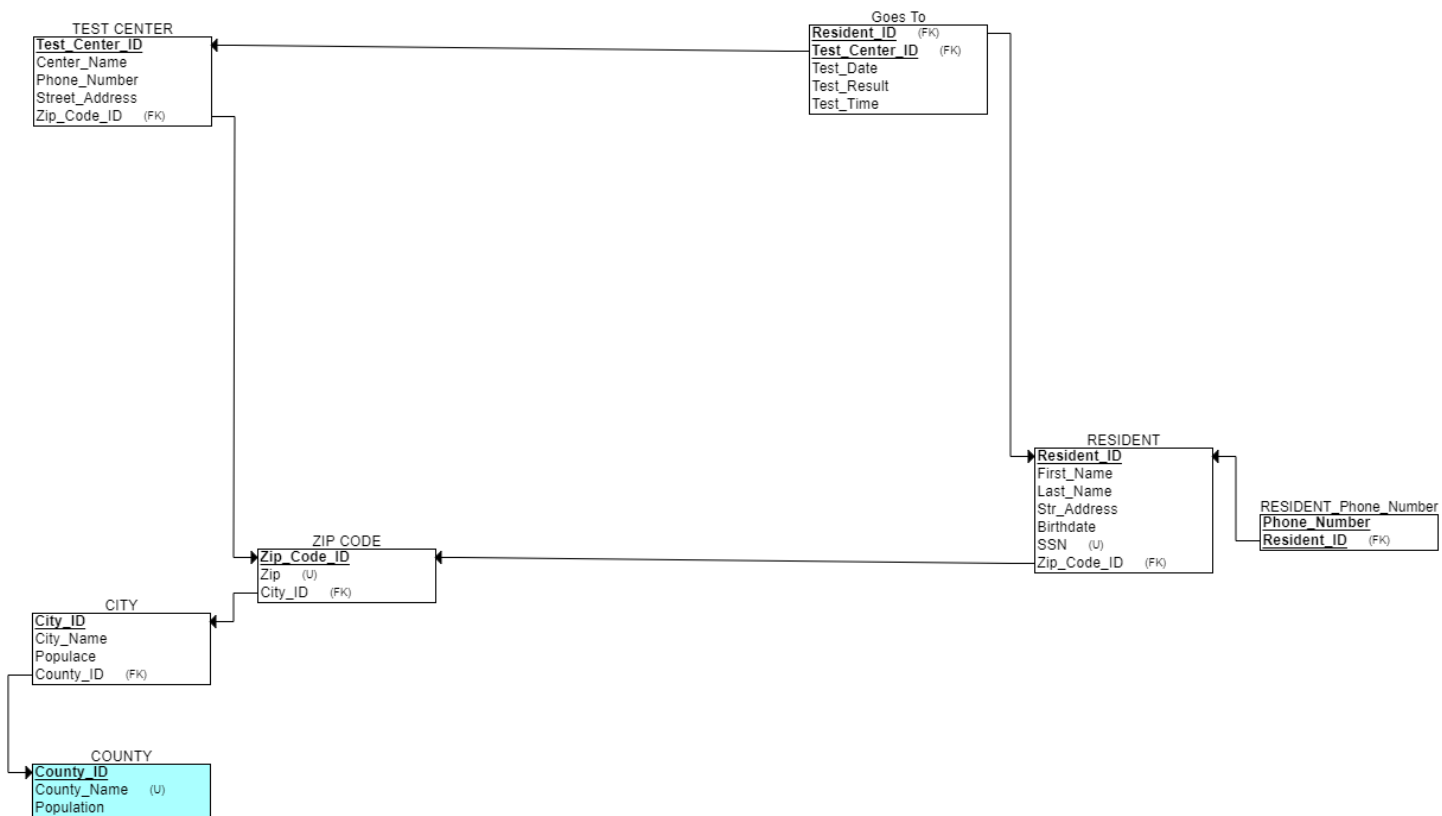


# CIS 2109: Final Exam Project

Andrew O'Drain

December 9th 2022





```

3  -- Andrew O'Drain
4  -- CIS 2109
5  -- December 12, 2022
6  -- Final Project
7
8
9  -- create ZIP CODE table
10
11 CREATE TABLE zip_code
12
13 ( zip_code_id      NUMBER(10)  NOT NULL,
14   zip              VARCHAR(10),
15
16   CONSTRAINT zip_code_id_pk
17   PRIMARY KEY (zip_code_id),
18   UNIQUE(zip));
19
20
21
22
23
24
25 -- create RESIDENT table
26
27 CREATE TABLE resident
28
29 ( resident_id      NUMBER(10)   NOT NULL,
30   first_name       VARCHAR(30)  NOT NULL,
31   last_name        VARCHAR(30)  NOT NULL,
32   str_address      VARCHAR(30)  NOT NULL,
33   birth_date       DATE         NOT NULL,
34   ssn              VARCHAR(11)  NOT NULL,
35   zip_code_id      NUMBER       NOT NULL,
36
37   CONSTRAINT resident_id_pk
38   PRIMARY KEY ( resident_id ),
39   CONSTRAINT zip_code_id_fk_one
40   FOREIGN KEY ( zip_code_id )
41   REFERENCES zip_code(zip_code_id),
42   UNIQUE(ssn));

```

```

45  -- create RESIDENT PHONE NUMBER table
46
47  CREATE TABLE resident_phone_number
48
49  ( phone_number          NUMBER(10)          NOT NULL,
50    resident_id           NUMBER(10)          NOT NULL,
51
52    CONSTRAINT phone_number_resident_id_cpk
53    PRIMARY KEY ( phone_number, resident_id ),
54    CONSTRAINT resident_id_fk_one
55    FOREIGN KEY ( resident_id )
56    REFERENCES resident(resident_id));
57
58
59
60  -- create TEST CENTER table
61
62  CREATE TABLE test_center
63
64  ( test_center_id         NUMBER(10)          NOT NULL,
65    center_name            VARCHAR(30)         NOT NULL,
66    street_address         VARCHAR(30)         NOT NULL,
67    zip_code_id            NUMBER (10)         NOT NULL,
68
69    CONSTRAINT test_center_id_pk
70    PRIMARY KEY ( test_center_id ),
71    CONSTRAINT zip_code_id_fk_two
72    FOREIGN KEY ( zip_code_id )
73    REFERENCES zip_code(zip_code_id));
74

```

```

76 CREATE TABLE goes_to
77
78 ( resident_id          NUMBER(10)          NOT NULL,
79   test_center_id       NUMBER(10)          NOT NULL,
80   test_date            DATE                 NOT NULL,
81   test_time            TIMESTAMP           NOT NULL,
82   test_result          VARCHAR(100)        NOT NULL,
83
84   CONSTRAINT resident_id_test_center_id_pk
85   PRIMARY KEY (resident_id, test_center_id),
86   CONSTRAINT resident_id_fk_two
87   FOREIGN KEY (resident_id)
88   REFERENCES resident(resident_id),
89   CONSTRAINT test_center_id_fk_one
90   FOREIGN KEY (test_center_id)
91   REFERENCES test_center(test_center_id));
92
93
94
95 CREATE TABLE county
96
97 ( county_id            NUMBER(10)          NOT NULL,
98   county_name          VARCHAR(50)         NOT NULL,
99   population           NUMERIC(11,2)       NOT NULL,
100
101   CONSTRAINT county_id_pk
102   PRIMARY KEY (county_id),
103   UNIQUE(county_name));
104
105
106

```

```

108
109 CREATE TABLE city
110
111 ( city_id          NUMBER(10)      NOT NULL,
112   city_name        VARCHAR(50)     NOT NULL,
113   populace          NUMERIC(11,2)   NOT NULL,
114   county_id         NUMBER(10)      NOT NULL,
115   zip_code_id       NUMBER (10)     NOT NULL,
116
117   CONSTRAINT city_id_pk
118   PRIMARY KEY (city_id),
119   CONSTRAINT county_id_fk
120   FOREIGN KEY (county_id)
121   REFERENCES county(county_id),
122   CONSTRAINT zip_code_id_fk_three
123   FOREIGN KEY (zip_code_id)
124   REFERENCES zip_code(zip_code_id));
125

```