**Practice Exercise 4A**

**Implement the HR schema below:**

DROP TABLE locations;

DROP TABLE departments;

DROP TABLE locations\_departments;

DROP TABLE employees;

CREATE TABLE locations

( location\_id INTEGER NOT NULL,

city CHAR(20) NOT NULL,

store\_manager INTEGER,

CONSTRAINT locations\_location\_id\_pk

PRIMARY KEY( location\_id ) );

CREATE TABLE departments

( department\_id INTEGER NOT NULL,

department\_name CHAR(50) NOT NULL,

CONSTRAINT departments\_department\_id\_pk

PRIMARY KEY( department\_id ) );

CREATE TABLE locations\_departments

( location\_id INTEGER NOT NULL,

department\_id INTEGER NOT NULL,

department\_manager INTEGER,

CONSTRAINT locs\_depts\_loc\_id\_depts\_id\_pk

PRIMARY KEY( location\_id, department\_id ) );

CREATE TABLE employees

( employee\_id INTEGER NOT NULL,

first\_name CHAR(15) NOT NULL,

m\_initial CHAR(1),

last\_name CHAR(15) NOT NULL,

soc\_sec\_no INTEGER NOT NULL,

birth\_date DATE NOT NULL,

sex CHAR(1) NOT NULL,

pension\_contr CHAR(1) NOT NULL,

hire\_date DATE NOT NULL,

store\_location INTEGER NOT NULL,

work\_department INTEGER,

job\_class CHAR(1),

job\_level CHAR(1) NOT NULL,

coach\_id INTEGER,

salary DECIMAL(9,2) NOT NULL,

bonus DECIMAL(7,2),

commission DECIMAL(7,2),

CONSTRAINT employees\_employee\_id\_pk

PRIMARY KEY( employee\_id ) );

--Populate locations table

INSERT INTO locations VALUES (11,'Sarnia',NULL);

INSERT INTO locations VALUES (22,'London',NULL);

INSERT INTO locations VALUES (33,'Toronto',NULL);

--Populate departments table

INSERT INTO departments VALUES (1000,'New Hire');

INSERT INTO departments VALUES (1001,'IT');

INSERT INTO departments VALUES (1002,'Administration');

INSERT INTO departments VALUES (1003,'Men''s Clothing');

INSERT INTO departments VALUES (1004,'Women''s Clothing');

INSERT INTO departments VALUES (1005,'Kids');

INSERT INTO departments VALUES (1006,'Toys');

--Populate locations\_departments table

INSERT INTO locations\_departments VALUES (11, 1001, NULL);

INSERT INTO locations\_departments VALUES (11, 1002, NULL);

INSERT INTO locations\_departments VALUES (22, 1003, NULL);

INSERT INTO locations\_departments VALUES (22, 1004, NULL);

INSERT INTO locations\_departments VALUES (22, 1005, NULL);

INSERT INTO locations\_departments VALUES (22, 1006, NULL);

INSERT INTO locations\_departments VALUES (33, 1003, NULL);

INSERT INTO locations\_departments VALUES (33, 1004, NULL);

--Populate employees table

INSERT INTO employees VALUES ( 10001, 'Lauren', 'M', 'Alexander', 749583756, 1004,74500, 22);

INSERT INTO employees VALUES ( 10002, 'Lisa', 'L', 'James', 396812058, 1005, 52000, 22);

INSERT INTO employees VALUES ( 10151, 'Dave', 'H', 'Bernard', 184759364, 1003, 66000, 33);

--Validate Primary key constraint

INSERT INTO employees VALUES ( 113, 'Steve', 'L', 'Carr', 018593745, DEFAULT, 55000, NULL, 'VG', 'DT\_MGR', NULL );

INSERT INTO employees VALUES ( 114, 'Marg', 'A', 'Horner', 947581253, DEFAULT, 45000, NULL, 'MA', 'DT\_MGR', 111 );

INSERT INTO employees VALUES ( 124, 'Scott', ' ', 'Long', 912058121, DEFAULT, 35000, DEFAULT, 'VG', 'SL\_ACE', 113 );

INSERT INTO employees VALUES ( 115, 'Jim', ' ', 'Best', 184629673, DEFAULT, 24000, DEFAULT, 'SA', 'SL\_ACE', NULL );

INSERT INTO employees VALUES ( 126, 'Sue', 'A', 'McDonald', 285912756, DEFAULT, 36000, DEFAULT, NULL, 'SL\_ACE', 110 );

INSERT INTO employees VALUES ( 117, 'Trish', 'S', 'Albert', 649105738, DEFAULT, 18000, DEFAULT, 'VG', 'SL\_ACE', 113 );

INSERT INTO employees VALUES ( 125, 'Terry', 'J', 'Maxwell', 385937712, DEFAULT, 22000, DEFAULT, 'HT', 'SL\_ACE', 112 );

INSERT INTO employees VALUES ( 119, 'Dave', ' ', 'Nisbet', 759127547, DEFAULT, 39000, DEFAULT, NULL, 'SL\_ACE', 110 );

INSERT INTO employees VALUES ( 120, 'Anne', 'M', 'Richie', 834577193, DEFAULT, 40000, DEFAULT, 'MA', 'SL\_ACE', 111 );

INSERT INTO employees VALUES ( 122, 'Jake', 'L', 'Lee', 812954926, DEFAULT, 45000, DEFAULT, 'VG', 'SL\_ACE', 113 );

INSERT INTO employees VALUES ( 118, 'Janice', 'B', 'Harper', 912758396, DEFAULT, 29000, DEFAULT, 'HT', 'SL\_ACE', 112 );

INSERT INTO employees VALUES ( 123, 'Linda', 'M', 'Johnson', 295734812, DEFAULT, 24000, DEFAULT, 'MA', 'SL\_ACE', 114 );

INSERT INTO employees VALUES ( 121, 'William','J', 'Johnson', 374912745, DEFAULT, 31000, DEFAULT, NULL, 'SL\_ACE', 110 );

INSERT INTO employees VALUES ( 127, 'Sharron',' ', 'Evans', 492337745, DEFAULT, 29000, DEFAULT, 'MA', 'SL\_ACE', 114 );

INSERT INTO employees VALUES ( 116, 'Robert', ' ', 'Henry', 512850475, DEFAULT, 37000, DEFAULT, 'MA', 'SL\_ACE', 111 );

INSERT INTO employees VALUES ( 131, 'Barb', 'L', 'Gibbens', 852951124, DEFAULT, 29000, DEFAULT, NULL, 'IT\_DEV', NULL );

INSERT INTO employees VALUES ( 135, 'Greg', 'J', 'Zimmerman', 539554832, DEFAULT, 31500, DEFAULT, 'IT', 'IT\_DEV', NULL );

INSERT INTO employees VALUES ( 132, 'Dave', 'R', 'Bernard', 284447883, DEFAULT, 24000, DEFAULT, 'IT', 'IT\_DEV', NULL );

INSERT INTO employees VALUES ( 136, 'Trish', 'S', 'Albert', 812740127, DEFAULT, 22500, DEFAULT, 'IT', 'IT\_DEV', NULL );

INSERT INTO employees VALUES ( 139, 'Rick', 'D', 'Peters', 294477289, DEFAULT, 28750, DEFAULT, 'IT', 'IT\_DEV', NULL );