*Pokémon Pokédex*

Outline

Pokémon is a RPG (role playing game) developed by Game Freak and published by Nintendo in the early 90’s. The game had immense popularity in the 90’s and spanned to other media. The game is centered on trainers known as Pokémon Trainers who catch, train and battle the creatures called Pokémon. There have been many versions that have been released since the original game, expanding on the Pokémon universe. The data that we will use for our Pokédex will be based on the first generation (Red/Blue/Green/Yellow).

The game mechanics allows a trainer to keep a maximum of 6 Pokémon at a time in their team. The trainer builds a team around each Pokémon’s type and skill set. The first generation had a total of 151 Pokémon and 15 different Pokémon types. Each Pokémon had one or two types they were associated with. For example, a Pokémon could be both a Flying type and a Fire type Pokémon. The Pokémon would get the strengths and weakness of both types.

Part of the success for the game can be attributed to the freedom the game allows you to have. As a trainer you could train all your Pokémon to the maximum level of 100 or you could spend your time collecting all 151 Pokémon. For our project, we focused on re-creating the pokédex and build a database that allows the user to get information on Pokémon and look at different attributes it has.

Database Outline in Words

The database is comprised of 4 main entities; Pokémon, Trainers, Routes and Moves.

The Pokémon table holds information similar to some of the information that is found in the game; the Pokémon ID, name and description of the Pokémon. The Pokémon ID is not auto-increment because the Pokémon in the game have set numbers for each specific Pokémon. Each Pokémon will also have a unique type associated with it. The primary key for the Pokémon table is the Pokémon ID and the unique key is the type.

The world of Pokémon is very large. It is comprised of towns, cities, routes (connects cities/towns together), etc. Generation 1 is revolved in the Kanto region. The routes table has the route id, name and description. The id will auto increment and be the primary key for the table. The unique key for the table will be the name. Both the id and name cannot be null.

A Pokémon trainer will come across other trainers on his/her journey. The trainer table will have an ID, name and description. The ID auto-increments and is the primary key for the table. The name is the unique key. Like the routes table, both the id and name cannot be null.

In generation 1, there are 165 different moves. The moves table is made up the move id, name, type, base damage, pp and description. The name, type, pp and id must have an input in order to be put into the table. Each move will vary in the base damage and pp (number of times the move can be used). The primary key for the table is the id. The unique key is the name and the foreign key is the type. Generation 1 moves only had one type associated with each move so we followed the same pattern.

As mentioned in the moves and Pokémon table, some type will be associated with the table. The type table is made up of an auto-incrementing ID (primary key) and name (unique key). Since we are following the games original rule of setting one elemental type with a move, we will follow the many to one relationship between moves and types. As mentioned above each move has only one type but each type has many moves associated with it (except dragon because generation 1 only had on dragon move). A many-to-many relationship is seen between the Pokémon table and types table. In the example mentioned earlier, a Pokémon can be associated with different elemental types like Flying and Fire. Each type has many Pokémon associated with it. The Pokémon move table also shows a many to many relationship as well. There are many moves a Pokémon can learn and certain moves that can be learned by different Pokémon. The table is made up of two keys, the Pokémon id and move id. The primary key is a combination of both keys.

One of the interesting elements of Pokémon is evolution. In order to recreate this, an evolution id and predecessor id were created. The primary key for the table is a combination of the two and foreign keys are one for the evolution id and predecessor id that references the Pokémon table’s id. This table will show a one to many relationship where a single Pokémon could have many predecessors.

The Pokémon routes table and trainer Pokémon type table both show many-to-many relationships. The routes table has the Pokémon id and routes id. The primary key is a combination of both IDs. Pokémon can be found in various parts of the Pokémon universe. There are few exceptions as there are a few Pokémon that are labeled as “legendary” so there is only one of them. Throughout the game, trainers typically dedicate their team to a specific type but there are some trainers that have Pokémon of multiple elemental types. A typical example is the bug catcher trainer. The bug catcher’s team consists of Weedles which is a combination of bug/poison. This ends up being a many-to-many relationship. The table consists of the trainer id and type id.

ER Diagram

Database Schema

Table Creation Queries

DROP TABLE IF EXISTS `pokemon`;

DROP TABLE IF EXISTS `pokemon\_types`;

DROP TABLE IF EXISTS `pokemon\_evolutions`;

DROP TABLE IF EXISTS `pokemon\_moves`;

DROP TABLE IF EXISTS `pokemon\_routes`;

DROP TABLE IF EXISTS `trainer`;

DROP TABLE IF EXISTS `trainer\_pokemon`;

DROP TABLE IF EXISTS `moves`;

DROP TABLE IF EXISTS `routes`;

DROP TABLE IF EXISTS `types`;

--pokemon

CREATE TABLE `pokemon`

(

`pokemon\_id` int(11) NOT NULL,

`name` varchar(255) NOT NULL,

`description` varchar(255),

PRIMARY KEY (`pokemon\_id`),

UNIQUE KEY (`type\_name`)

)ENGINE=InnoDB;

CREATE TABLE `types`

(

`type\_id` int(11) NOT NULL AUTO\_INCREMENT,

`type\_name` varchar(255) NOT NULL,

PRIMARY KEY (`type\_id`),

UNIQUE KEY(``type\_name)

)ENGINE=InnoDB;

CREATE TABLE `routes`

(

`route\_id` int(11) NOT NULL,

`route\_name` varchar(255) NOT NULL,

`description` varchar(255),

PRIMARY KEY (`route\_id`),

UNIQUE KEY (`route\_name`)

)ENGINE=InnoDB;

CREATE TABLE `trainer`

(

`trainer\_id` int(11) NOT NULL AUTO\_INCREMENT,

`trainer\_name` varchar(255) NOT NULL,

`description` varchar(255),

PRIMARY KEY (`trainer\_id`),

UNIQUE KEY(`trainer\_name`)

)ENGINE=InnoDB;

CREATE TABLE `moves`

(

`move\_id` int(11) NOT NULL AUTO\_INCREMENT,

`move\_name` varchar(255) NOT NULL,

`move\_type` int(11) NOT NULL,

`move\_base\_damage` int(11) DEFAULT NULL,

`move\_pp` int(11) NOT NULL,

`description` varchar(255),

PRIMARY KEY(`move\_id`),

UNIQUE KEY(`move\_name`),

FOREIGN KEY(`types`) REFERENCES `types`(`type\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

CREATE TABLE `trainer\_pokemon`

(

`trainer\_pokemon\_id` int(11) NOT NULL,

`trainer\_pokemon\_type\_id` int(11) NOT NULL,

PRIMARY KEY (`trainer\_pokemon\_id`) REFERENCES `trainer` (`trainer\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

FOREIGN KEY(`trainer\_pokemon\_type\_id`) REFERENCES `types` (`type\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

CREATE TABLE `pokemon\_routes`

(

`pid` int(11) NOT NULL,

`rid` int(11) NOT NULL,

PRIMARY KEY (`pid`, `rid`),

FOREIGN KEY (`pid`) REFERENCES `pokemon` (`pokemon\_id`),

ON DELETE CASCADE

ON UPDATE CASCADE

FOREIGN KEY (`rid`) REFERENCES `routes` (`route\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

CREATE TABLE `pokemon\_moves`

(

`pid` int(11) NOT NULL,

`mid` int(11) NOT NULL,

PRIMARY KEY (`pid`, `mid`),

FOREIGN KEY (`pid`) REFERENCES `pokemon` (`pokemon\_id`),

ON DELETE CASCADE

ON UPDATE CASCADE

FOREIGN KEY (`mid`) REFERENCES `moves` (`move\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

CREATE TABLE `pokemon\_evolutions`

(

`pokemon\_evolution\_id` int(11) NOT NULL,

`pokemon\_predecessor\_id` int(11) NOT NULL,

PRIMARY KEY (`pokemon\_evolution\_id`, `pokemon\_predecessor\_id`),

FOREIGN KEY (`pokemon\_evolution\_id`) REFERENCES `pokemon` (`pokemon\_id`),

ON DELETE CASCADE

ON UPDATE CASCADE

FOREIGN KEY (`pokemon\_predecessor\_id`) REFERENCES `pokemon` (`pokemon\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

CREATE TABLE `pokemon\_types`

(

`pid` int(11) NOT NULL,

`ptid` int(11) NOT NULL,

PRIMARY KEY (`pid`, `ptid`),

FOREIGN KEY (`pid`) REFERENCES `pokemon` (`pokemon\_id`),

ON DELETE CASCADE

ON UPDATE CASCADE

FOREIGN KEY (`ptid`) REFERENCES `types` (`type\_id`)

ON DELETE CASCADE

ON UPDATE CASCADE

)ENGINE=InnoDB;

Populate Tables

--populate types table

INSERT INTO types (type\_name) VALUES ("Normal");

INSERT INTO types (type\_name) VALUES ("Fire");

INSERT INTO types (type\_name) VALUES ("Water");

INSERT INTO types (type\_name) VALUES ("Electric");

INSERT INTO types (type\_name) VALUES ("Grass");

INSERT INTO types (type\_name) VALUES ("Ice");

INSERT INTO types (type\_name) VALUES ("Fighting");

INSERT INTO types (type\_name) VALUES ("Poison");

INSERT INTO types (type\_name) VALUES ("Ground");

INSERT INTO types (type\_name) VALUES ("Flying");

INSERT INTO types (type\_name) VALUES ("Psychic");

INSERT INTO types (type\_name) VALUES ("Bug");

INSERT INTO types (type\_name) VALUES ("Rock");

INSERT INTO types (type\_name) VALUES ("Ghost");

INSERT INTO types (type\_name) VALUES ("Dragon");

--populate pokemon

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (1, "Bulbasaur", "A strange seed was planted on its back at birth. This plant sprouts and grows with this Pokemon.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (2, "Ivysaur", "When the bulb on its back grows large, it appears to lose the ability to stand on its hind legs.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (3, "Venusaur", "The plant blooms when it is absorbing solar energy. It stays on the move to seek sunlight.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (4, "Charmander", "Obviously prefers hot places. When it rains, steam is said to spout from the top of its tail.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (5, "Charmeleon", "When it swings its burning tail, it elevates the temperature to unbearably high levels.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (6, "Charizard", "Spits fire that is hot enough to melt boulders. Known to cause forest fires unintentionally.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (7, "Squirtle", "After birth, its back swells and hardens into a shell. Powerfully sprays foam from its mouth.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (8, "Wartortle", "Often hides in water to stalk unwary prey. For swimming fast, it moves its ears to maintain balance.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (9, "Blastoise", "A brutal Pokemon with pressurized water jets on its shell. They are used for high speed tackles.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (10, "Caterpie", "Its short feet are tipped with suction pads that enable it to tirelessly climb slopes and walls.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (11, "Metapod", "This Pokemon is vulnerable to attack while its shell is soft, exposing its weak and tender body.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (12, "Butterfree", "In battle, it flaps its wings at high speed to release highly toxic dust into the air.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (13, "Weedle", "Often found in forests, eating leaves. It has a sharp venomous stinger on its head.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (14, "Kakuna", "Almost incapable of moving, this Pokemon can only harden its shell to protect itself from predators.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (15, "Beedrill", "Flies at high speed and attacks using its large venomous stingers on its forelegs and tail.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (16, "Pidgey", "A common sight in forests and woods. It flaps its wings at ground level to kick up blinding sand.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (17, "Pidgeotto", "Very protective of its sprawling territorial area, this POKéMON will fiercely peck at any intruder.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (18, "Pidgeot", "When hunting, it skims the surface of water at high speed to pick off unwary prey such as Magikarp.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (19, "Rattata", "Bits anything when it attacks. Small and very quick, it is a common sight in many places.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (20, "Raticate", "It uses its whiskers to maintain its balance. It apparently slows down if they are cut off.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (25, "Pikachu", "When several of these Pokemon gather, their electricity could build and cause lightning storms.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (26, "Raichu", "Its long tail serves as a ground to protect itself from its own high voltage power.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (27, "Sandshrew", "Burrows deep underground in arid locations far from water. It only emerges to hunt for food.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (28, "Sandslash", "Curls up into a spiny ball when threatened. It can roll while curled up to attack or escape.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (56, "Mankey", "Extremely quick to anger. It could be docile one moment then thrashing away the next instant.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (57, "Primape", "Always furious and tenacious to boot. It will not abandon chasing its quarry until it is caught.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (92, "Gastly", "Almost invisible, this gaseous POKéMON cloaks the target and puts it to sleep without notice.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (93, "Haunter", "Because of its ability to slip through block walls, it is said to be from another dimension.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (94, "Gengar", "Under a full moon, this Pokemon likes to mimic the shadows of people and laugh at their fright.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (95, "Onix", "As it grows, the stone portions of its body harden to become similar to a diamond, but colored black.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (144, "Articuno", "A legendary bird Pokemon that is said to appear to doomed people who are lost in icy mountains.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (147, "Dratini", "Long considered a mythical Pokemon until recently when a small colony was found living underwater.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (148, "Dragonair", "A mystical Pokemon that exudes a gentle aura. Has the ability to change climate conditions.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (149, "Dragonite", "An extremely rarely seen marine Pokemon. Its intelligence is said to match that of humans.");

INSERT INTO pokemon (pokemon\_id, name, description) VALUES (150, "Mewtwo", "It was created by a scientist after years of horrific gene splicing and DNA engineering experiments.");

-- populating `routes`

INSERT INTO routes (route\_name, description) VALUES ("Pallet Town", "A fairly new and quiet town. It's a small and pretty place.");

INSERT INTO routes (route\_name, description) VALUES ("Route 1", "A country road full of greenery and rough paths.");

INSERT INTO routes (route\_name, description) VALUES ("Viridian City", "A beautiful city that is enveloped in green year-round.");

INSERT INTO routes (route\_name, description) VALUES ("Route 2", "A path that winds and bends from the forest's entrance.");

INSERT INTO routes (route\_name, description) VALUES ("Pewter City", "A quiet city nestled between rugged mountains and rocks.");

INSERT INTO routes (route\_name, description) VALUES ("Route 3", "A road where many rocks have fallen from the sky to create craters.");

INSERT INTO routes (route\_name, description) VALUES ("Route 4", "Route 4 is a route in northern Kanto connecting Route 3 and Mt. Moon to Cerulean City.");

INSERT INTO routes (route\_name, description) VALUES ("Cerulean City", "A beautiful city with flowing water and blooming flowers.");

INSERT INTO routes (route\_name, description) VALUES ("Route 5", "A small pathway that is divided into three vertical parts.");

INSERT INTO routes (route\_name, description) VALUES ("Vermillion City", "A southern city that is bathed in orange by the setting sun.");

INSERT INTO routes (route\_name, description) VALUES ("Route 6", "Medium sized pathway that curves around to form a "S" shape that connects Saffron City and Vermillion City.");

INSERT INTO routes (route\_name, description) VALUES ("Lavender Town", "A small town covered in a beautiful hue of purple.");

INSERT INTO routes (route\_name, description) VALUES ("Route 7", "Short east-west route, serving only as a brief separation between Saffron City and Celadon City.");

INSERT INTO routes (route\_name, description) VALUES ("Celadon City", "A rich, rainbow colored city where people and Pokémon gather.");

INSERT INTO routes (route\_name, description) VALUES ("Fuchsia City", "A historic village that has become new.");

INSERT INTO routes (route\_name, description) VALUES ("Saffron City", "The biggest city in Kanto, shining with a golden light.");

INSERT INTO routes (route\_name, description) VALUES ("Cinnabar Island", "A town used to be here until it was swept away by an eruption.");

INSERT INTO routes (route\_name, description) VALUES ("Saffron City", "The biggest city in Kanto, shining with a golden light.");

INSERT INTO routes (route\_name, description) VALUES ("Viridian Forest", "The deep and sprawling forest is said to be a natural maze as many people get lost inside.");

-- Populating `moves`

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Tackle", (SELECT type\_id FROM `types` WHERE type\_name = "Normal"), 50, 35, "Basic attack.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Body Slam", (SELECT type\_id FROM `types` WHERE type\_name = "Normal"), 85, 15, "May paralyze opponent");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Razer Leaf", (SELECT type\_id FROM `types` WHERE type\_name = "Grass"), 55, 25, "High critical hit ratio.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Rock Sride", (SELECT type\_id FROM `types` WHERE type\_name = "Rock"), 75, 10, "May cause flinching");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Flamethrower", (SELECT type\_id FROM `types` WHERE type\_name = "Fire"), 90, 15, "May burn opponent.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Gust", (SELECT type\_id FROM `types` WHERE type\_name = "Flying"), 40, 35, "Hits Pokémon using Fly/Bounce with double power.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Bubble", (SELECT type\_id FROM `types` WHERE type\_name = "Water"), 20, 30, "10% chance to lower the target's Speed by one stage.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Blizzard", (SELECT type\_id FROM `types` WHERE type\_name = "Ice"), 110, 5, "May freeze opponent.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Acid", (SELECT type\_id FROM `types` WHERE type\_name = "Poison"), 40, 30, "May lower opponent's Special Defense.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Lick", (SELECT type\_id FROM `types` WHERE type\_name = "Ghost"), 30, 30, "May paralyze opponent");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Karate Chop", (SELECT type\_id FROM `types` WHERE type\_name = "Fighting"), 50, 25, "High critical hit ratio.");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Psychic", (SELECT type\_id FROM `types` WHERE type\_name = "Psychic"), 90, 10, "May lower opponent's Special Defense");

INSERT INTO moves (move\_name, move\_type, move\_base\_damage, move\_pp, description) VALUES ("Twineedle", (SELECT type\_id FROM `types` WHERE type\_name = "Bug"), 25, 20 , "Hits twice in one turn. May poison opponent.");

-- populating `trainers`

INSERT INTO trainer(trainer\_name, description) VALUES ("Bug Catcher", "Young children in hats carrying nets.");

INSERT INTO trainer(trainer\_name, description) VALUES ("Lass", "Young girls in school uniforms.");

INSERT INTO trainer (trainer\_name, description) VALUES ("Youngster", "Young boys wearing caps and shorts.");

INSERT INTO trainer(trainer\_name, description) VALUES ("Blackbelt", "They are young men wearing a karate uniform while striking a battle pose.");

INSERT INTO trainer(trainer\_name, description) VALUES ("Biker", "They are rowdy young men riding "bikes", although they appear to be motorcycles.");

INSERT INTO trainer (trainer\_name, description) VALUES ("Sailor", "They are men wearing a sailor's uniform, flexing their muscles.");

INSERT INTO trainer (trainer\_name, description) VALUES ("Lorelei", "Lorelei is the first Trainer of the Elite Four. She is known for her logical, calculated, and cool style of battling.");

INSERT INTO trainer(trainer\_name, description) VALUES ("Bruno", "Bruno is a member of the Elite Four. He raises Fighting-type Pokémon, living with them and training with them.");

INSERT INTO trainer(trainer\_name, description) VALUES ("Agatha", "Agatha is a member of the Elite Four, and the oldest one to date. As such, she serves as an inspiration for senior Pokémon Trainers all around the region.");

INSERT INTO trainer (trainer\_name, description) VALUES ("Lance", "Lance is the fourth and final member of the Elite Four. He is known as a cool and heroic Trainer.");

-- Populating `trainer\_pokemon`

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Bug Catcher"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Bug Catcher"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Sailor"), (SELECT type\_id FROM types WHERE type\_name = "Water"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Sailor"), (SELECT type\_id FROM types WHERE type\_name = "Fighting"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Blackbelt"), (SELECT type\_id FROM types WHERE type\_name = "Fighting"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Biker"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Biker"), (SELECT type\_id FROM types WHERE type\_name = "Fire"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Biker"), (SELECT type\_id FROM types WHERE type\_name = "Ghost"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Lass"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Lass"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Youngster"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Youngster"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Lorelei"), (SELECT type\_id FROM types WHERE type\_name = "Ice"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Bruno"), (SELECT type\_id FROM types WHERE type\_name = "Fighting"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Agatha"), (SELECT type\_id FROM types WHERE type\_name = "Ghost"));

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id) VALUES ((SELECT trainer\_id FROM trainer WHERE trainer\_name = "Lance"), (SELECT type\_id FROM types WHERE type\_name = "Dragon"));

-- Prepopulating `pokemon\_routes`

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"), (SELECT route\_id FROM routes WHERE route\_name = "Route 1"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"), (SELECT route\_id FROM routes WHERE route\_name = "Route 2"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Caterpie"), (SELECT route\_id FROM routes WHERE route\_name = "Varidian Forest"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Weedle"), (SELECT route\_id FROM routes WHERE route\_name = "Route 2"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Weedle"), (SELECT route\_id FROM routes WHERE route\_name = "Viridian Forest"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 1"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 2"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 3"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Spearow"), (SELECT route\_id FROM routes WHERE route\_name = "Route 3"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Metapod"), (SELECT route\_id FROM routes WHERE route\_name = "Varidian Forest"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"), (SELECT route\_id FROM routes WHERE route\_name = "Varidian Forest"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pikachu"), (SELECT route\_id FROM routes WHERE route\_name = "Varidian Forest"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Sandshrew"), (SELECT route\_id FROM routes WHERE route\_name = "Route 4"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 5"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 6"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"), (SELECT route\_id FROM routes WHERE route\_name = "Route 7"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Onix"), (SELECT route\_id FROM routes WHERE route\_name = "Lavender Town"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Onix"), (SELECT route\_id FROM routes WHERE route\_name = "Cerulean City"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"), (SELECT route\_id FROM routes WHERE route\_name = "Lavender Town"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Articuno"), (SELECT route\_id FROM routes WHERE route\_name = "Cinnabar Island"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dratini"), (SELECT route\_id FROM routes WHERE route\_name = "Fuchsia City"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonair"), (SELECT route\_id FROM routes WHERE route\_name = "Cerulean City"));

INSERT INTO pokemon\_routes (pid, rid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mewtwo"), (SELECT route\_id FROM routes WHERE route\_name = "Cerulean City"));

-- populate `pokemon\_moves`

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Body Slam"), (SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Razer Leaf"), (SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Flamethrower"), (SELECT pokemon\_id FROM pokemon WHERE name = "Charmander"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Body slam"), (SELECT pokemon\_id FROM pokemon WHERE name = "Charmander"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Charmander"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Squirtle"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Body Slam"), (SELECT pokemon\_id FROM pokemon WHERE name = "Squirtle"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Bubble"), (SELECT pokemon\_id FROM pokemon WHERE name = "Squirtle"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Caterpie"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Caterpie"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Metapod"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Twineedle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Gust"), (SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Tackle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Body Slam"), (SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Gust"), (SELECT pokemon\_id FROM pokemon WHERE name = "Spearow"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Karate Chop"), (SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Body Slam"), (SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Blizzard"), (SELECT pokemon\_id FROM pokemon WHERE name = "Articuno"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Gust"), (SELECT pokemon\_id FROM pokemon WHERE name = "Articuno"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Psychic"), (SELECT pokemon\_id FROM pokemon WHERE name = "Mewtwo"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Lick"), (SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"));

INSERT INTO pokemon\_moves (mid, pid) VALUES ((SELECT move\_id FROM moves WHERE move\_name = "Acid"), (SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"));

-- populate `pokemon\_evolution`

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Ivysaur"), (SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Venusaur"), (SELECT pokemon\_id FROM pokemon WHERE name = "Ivysaur"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Charmeleon"), (SELECT pokemon\_id FROM pokemon WHERE name = "Charmander"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Charizard"), (SELECT pokemon\_id FROM pokemon WHERE name = "Charmeleon"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Wartortle"), (SELECT pokemon\_id FROM pokemon WHERE name = "Squirtle"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Blastoise"), (SELECT pokemon\_id FROM pokemon WHERE name = "Wartortle"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Metapod"), (SELECT pokemon\_id FROM pokemon WHERE name = "Caterpie"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Butterfree"), (SELECT pokemon\_id FROM pokemon WHERE name = "Metapod"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"), (SELECT pokemon\_id FROM pokemon WHERE name = "Weedle"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Beedrill"), (SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeotto"), (SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeot"), (SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeotto"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Raticate"), (SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Raichu"), (SELECT pokemon\_id FROM pokemon WHERE name = "Pikachu"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Sandslash"), (SELECT pokemon\_id FROM pokemon WHERE name = "Sandshrew"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Primape"), (SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Haunter"), (SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gengar"), (SELECT pokemon\_id FROM pokemon WHERE name = "Haunter"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonair"), (SELECT pokemon\_id FROM pokemon WHERE name = "Dratini"));

INSERT INTO pokemon\_evolutions (pokemon\_evolution\_id, pokemon\_predecessor\_id) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonite"), (SELECT pokemon\_id FROM pokemon WHERE name = "Dragonair"));

-- populate `pokemon\_types`

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"), (SELECT type\_id FROM types WHERE type\_name = "Grass"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Bulbasaur"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Ivysaur"), (SELECT type\_id FROM types WHERE type\_name = "Grass"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Ivysaur"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Venusaur"), (SELECT type\_id FROM types WHERE type\_name = "Grass"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Venusaur"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Charmander"), (SELECT type\_id FROM types WHERE type\_name = "Fire"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Charmeleon"), (SELECT type\_id FROM types WHERE type\_name = "Fire"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Charizard"), (SELECT type\_id FROM types WHERE type\_name = "Fire"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Squirtle"), (SELECT type\_id FROM types WHERE type\_name = "Water"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Wartortle"), (SELECT type\_id FROM types WHERE type\_name = "Water"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Blastoise"), (SELECT type\_id FROM types WHERE type\_name = "Water"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Caterpie"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Metapod"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Butterfree"), (SELECT type\_id FROM types WHERE type\_name = "Bug"))

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Butterfree"), (SELECT type\_id FROM types WHERE type\_name = "Flying"))

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Weedle"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Weedle"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Kakuna"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Beedrill"), (SELECT type\_id FROM types WHERE type\_name = "Bug"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Beedrill"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgey"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeotto"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeotto"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeot"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pidgeot"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Rattata"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Raticate"), (SELECT type\_id FROM types WHERE type\_name = "Normal"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Pikachu"), (SELECT type\_id FROM types WHERE type\_name = "Electric"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Raichu"), (SELECT type\_id FROM types WHERE type\_name = "Electric"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Sandshrew"), (SELECT type\_id FROM types WHERE type\_name = "Ground"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Sandslash"), (SELECT type\_id FROM types WHERE type\_name = "Ground"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Onix"), (SELECT type\_id FROM types WHERE type\_name = "Ground"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Onix"), (SELECT type\_id FROM types WHERE type\_name = "Rock"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mankey"), (SELECT type\_id FROM types WHERE type\_name = "Fighting"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Primape"), (SELECT type\_id FROM types WHERE type\_name = "Fighting"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"), (SELECT type\_id FROM types WHERE type\_name = "Ghost"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gastly"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Haunter"), (SELECT type\_id FROM types WHERE type\_name = "Ghost"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Haunter"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gengar"), (SELECT type\_id FROM types WHERE type\_name = "Ghost"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Gengar"), (SELECT type\_id FROM types WHERE type\_name = "Poison"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Articuno"), (SELECT type\_id FROM types WHERE type\_name = "Ice"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Articuno"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dratini"), (SELECT type\_id FROM types WHERE type\_name = "Dragon"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonair"), (SELECT type\_id FROM types WHERE type\_name = "Dragon"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonite"), (SELECT type\_id FROM types WHERE type\_name = "Dragon"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Dragonite"), (SELECT type\_id FROM types WHERE type\_name = "Flying"));

INSERT INTO pokemon\_types (pid, tid) VALUES ((SELECT pokemon\_id FROM pokemon WHERE name = "Mewtwo"), (SELECT type\_id FROM types WHERE type\_name = "Psychic"));

General Use Queries

SELECT

We have six select queries that will be used to gather information about a Pokémon. The queries will allow a user to get the number, name, description, moves (names of the moves), types and evolution of the Pokémon.

SELECT p.pokemon\_id FROM pokemon p  
 WHERE p.name = “User’s search term”;

SELECT p.name FROM pokemon p  
 WHERE p.name = “User’s search term”;

SELECT p.description FROM pokemon p  
 WHERE p.name = “User’s search term”;

SELECT m.move\_name FROM moves m  
 INNER JOIN pokemon\_moves pm ON pm.mid = m.move\_id  
 INNER JOIN pokemon p ON p.pokemon\_id = pm.pid  
 WHERE p.name= “User’s search term”;

SELECT t.type\_name FROM types t  
 INNER JOIN pokemon\_types pt ON pt.ptid = t.type\_id  
 INNER JOIN pokemon p ON p.pokemon\_id = pt.ptid  
 WHERE p.name= “User’s search term”;

SELECT p.name FROM pokemon p  
 INNER JOIN pokemon\_ evolutions pe ON pe. pokemon\_predecessor\_id = p.pokemon\_id  
 INNER JOIN pokemon p\_evo ON p\_evo.pokemon\_id = pe. pokemon\_evolution\_id  
 WHERE p\_evo.name= “User’s search term”;

INSERT

We have 10 inserts for the pokédex. One is to insert basic information for the Pokémon like its name, id number and description of the Pokémon. The second one allows you to add its evolution and previous state as well. The third one allows you to insert the types for the Pokémon. The fourth one allows you to insert new moves and the information for the move. The fifth insert allows the user to input routes into their pokédex. The sixth, seventh, and eighth insert allows the user to insert the type, moves and route for the Pokémon of their choice. The ninth and tenth insert inputs information related to the random trainers in the Pokémon world.

INSERT INTO pokemon (pokemon\_id,name,description)   
VALUES (“id”,”name”, “description”);

INSERT INTO pokemon\_evolutions(pokemon\_evolution\_id, pokemon\_predecessor\_id)  
VALUES ((SELECT p.pokemon\_id FROM pokemon p WHERE p.name=”evo\_name”), (SELECT p.pokemon\_id FROM pokemon p WHERE p.name=”pred\_name”);

INSERT INTO pokemon\_type(pid,ptid)   
VALUES ((SELECT p.pokemon\_id FROM pokemon p WHERE p.name=”pokemon\_name”), (SELECT t.type\_id FROM types WHERE t.type\_name=”type name”));

INSERT INTO moves(move\_name, move\_type, move\_base\_damage, move\_pp, description)   
 VALUES (“move name”, (SELECT t.type\_id FROM types t WHERE t.type\_name=”type\_name”),”move\_base\_damage”, “move\_pp”, “description”);

INSERT INTO routes(route\_name, description)   
 VALUES (”route\_name”, “description” );

INSERT INTO pokemon\_type(pid,ptid)   
 VALUES ((SELECT p.pokemon\_id FROM pokemon p WHERE p.name=”pokemon\_name”), (SELECT t.type\_id FROM types WHERE t.type\_name=”type name”));

INSERT INTO pokemon\_moves(mid,pid)   
VALUES ((SELECT m.move\_id FROM moves m WHERE m.move\_name=”move\_name),   
(SELECT p.pokemon\_id FROM pokemon p WHERE p.pokemon\_name=”pokemon\_name”));

INSERT INTO pokemon\_routes(pid,rid)   
VALUES ((SELECT p.pokemon\_id FROM pokemon p WHERE p.pokemon\_name=”p\_name”),   
(SELECT r.route\_id FROM route r WHERE r.route\_name=”route\_name”));

INSERT INTO trainer (trainer\_name, description)  
VALUES (“trainer\_name”,”description”);

INSERT INTO trainer\_pokemon (trainer\_pokemon\_id, trainer\_pokemon\_type\_id)  
VALUES ((SELECT t.trainer\_id FROM trainer t WHERE t.trainer\_name=”t\_name”),  
(SELECT t.type\_id FROM type t WHERE t.type\_name=”type\_name”);

DELETE

We added some very basic deletes for our pokédex. We allow the user to delete the pokemon, type, move and route.

DELETE FROM pokemon p WHERE p.pokemon\_name=”pokemon\_name”;

DELETE FROM types t WHERE t.type\_name=”type\_name”;

DELETE FROM moves m WHERE m.move\_name=”move\_name”;

DELETE FROM routes r WHERE r.route\_name=”route\_name”;