

```
REM *****
REM *** TABLES.SQL (text file)
REM *** Copyright 2022 Ryan Stephens
REM *** Free use for personal educational purposes
REM *** Creates base tables for BIRDS schema for a user account that you create
REM *** Syntax: Oracle SQL, Standard SQL
REM *** Assumption: access to a database under which you have the authority to run this script
REM *** Note 1: Though portable, modifications may be required for other vendor implementations
REM *** Note 2: This file can be executed from a command prompt
REM *** Note 3: The order of statements are important and adhere to PRIMARY and FOREIGN keys
REM *** Note 4: Make another copy of this file and modify as you see fit as you practice SQL
REM *** Note 5: This file is provided as a courtesy, support is not available for modifications
REM *****
```

```
drop table birds_food;
drop table birds_nests;
drop table birds_migration;
drop table migration;
drop table nests;
drop table food;
drop table photos;
drop table locations;
drop table nicknames;
drop table birds;
```

```
create table birds
(bird_id      number(3)      not null      primary key,
bird_name    varchar(30)    not null      unique,
height       number(4,2)    not null,
weight       number(4,2)    not null,
wingspan     number(4,2)    null,
eggs         number(2)      not null,
broods       number(1)      null,
incubation   number(2)      not null,
fledging     number(3)      not null,
```

```
nest_builder char(1) not null);
```

```
create table nicknames
```

```
(bird_id number(3) not null,
```

```
nickname varchar(30) not null,
```

```
constraint nicknames_pk primary key (bird_id, nickname),
```

```
constraint nicknames_bird_id_fk foreign key (bird_id) references birds (bird_id));
```

```
create table locations
```

```
(location_id number(2) not null primary key,
```

```
location_name varchar(30) not null unique);
```

```
create table photos
```

```
(photo_id number(5) not null primary key,
```

```
photo_file varchar(30) not null unique,
```

```
photo_date date not null,
```

```
photo_location_id number(2) not null,
```

```
bird_id number(3) not null,
```

```
constraint photos_bird_id foreign key (bird_id) references birds (bird_id),
```

```
constraint photos_location_id foreign key (photo_location_id) references locations  
(location_id));
```

```
create table food
```

```
(food_id number(3) not null primary key,
```

```
food_name varchar(30) not null unique);
```

```
create table birds_food
```

```
(bird_id number(3) not null,
```

```
food_id number(3) not null,
```

```
constraint birds_food_pk primary key (bird_id, food_id),
```

```
constraint birds_food_bird_fk foreign key (bird_id) references birds (bird_id),
```

```
constraint birds_food_food_fk foreign key (food_id) references food (food_id));
```

```
create table nests
```

```
(nest_id number(1) not null primary key,
```

```
nest_name varchar(20) not null unique);
```

```
create table birds_nests
(bird_id      number(3)      not null      primary key,
nest_id      number(1)      not null,
constraint birds_nests_bird_fk foreign key (bird_id) references birds (bird_id),
constraint birds_nests_nest_fk foreign key (nest_id) references nests (nest_id));
```

```
create table migration
(migration_id number(2)      not null      primary key,
migration_location varchar(30) not null      unique);
```

```
create table birds_migration
(bird_id      number(3)      not null,
migration_id  number(2)      not null,
constraint birds_migration_pk primary key (bird_id, migration_id),
constraint birds_migration_bird_fk foreign key (bird_id) references birds (bird_id),
constraint birds_migration_migration_fk foreign key (migration_id) references migration
(migration_id));
```