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Part 4: Data Design

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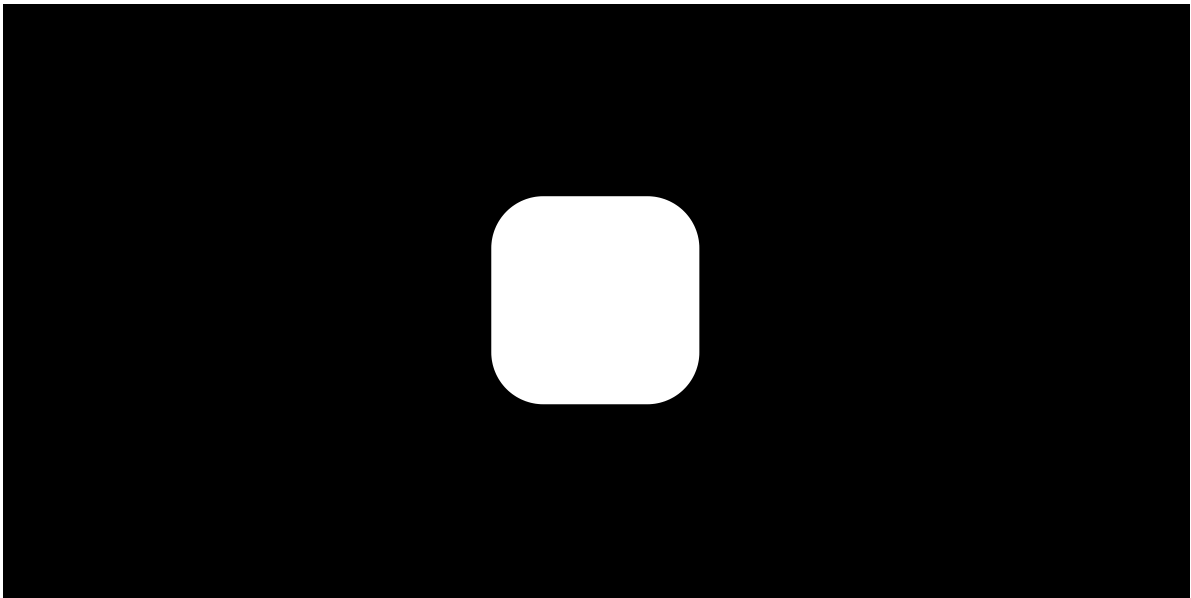
Part 4: Data Design

Now we are going to learn about the best way to design the data in our database. We will use the diagram in the “stuff” directory, which is also included below, along with the SQL code:

Behind the Scenes

Database Technologies

[Start of transcript. Skip to the end.](#)



We've seen that the really cool thing with peewee is that you almost don't know you're working with a database. It's all about working in Python, and things are very straightforward. But with a database, you can always look at the data used in the database just itself.

Video

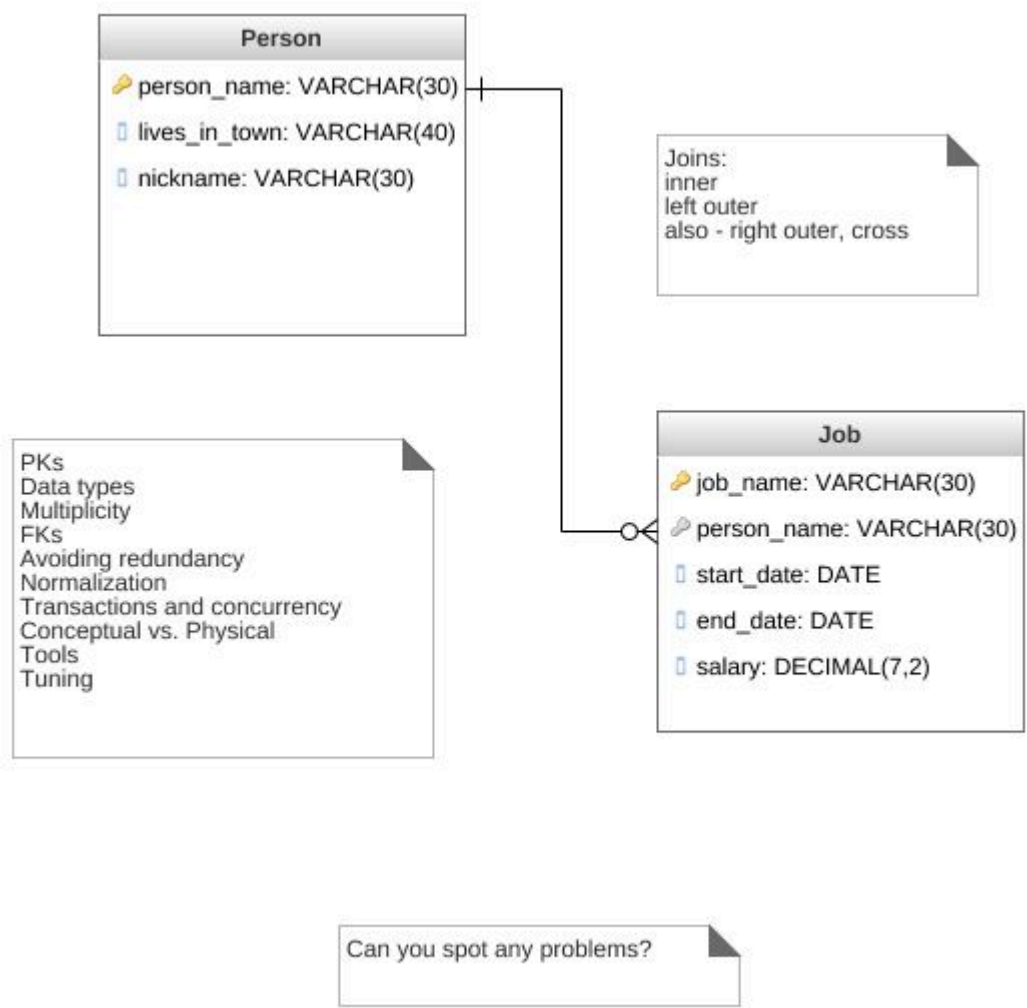
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Database diagram:



Code samples from the video:

SQL statement

```
select * from person ;
```

Start sqlite3 database (from the command line):

```
sqlite3 personjob.db
```

The sqlite> prompt indicates we are ready to enter sqlite commands.

```
sqlite> .tables  
job person personnumkey
```

Here is how sqlite sees the schema:

```
sqlite> .schema  
  
CREATE TABLE IF NOT EXISTS "person" ("person_name" VARCHAR(30) NOT NULL PRIMARY KEY,  
"lives_in_town" VARCHAR(40) NOT NULL, "nickname" VARCHAR(20));  
  
CREATE TABLE IF NOT EXISTS "job" ("job_name" VARCHAR(30) NOT NULL PRIMARY KEY, "start_date" DATE  
NOT NULL, "end_date" DATE NOT NULL, "salary" DECIMAL(7, 2) NOT NULL, "person_employed_id"  
VARCHAR(30) NOT NULL, FOREIGN KEY ("person_employed_id") REFERENCES "person" ("person_name"));  
  
CREATE INDEX "job_person_employed_id" ON "job" ("person_employed_id");  
  
CREATE TABLE IF NOT EXISTS "personnumkey" ("id" INTEGER NOT NULL PRIMARY KEY, "person_name"  
VARCHAR(30) NOT NULL, "lives_in_town" VARCHAR(40) NOT NULL, "nickname" VARCHAR(20));
```

```
sqlite> .mode column  
sqlite> .width 15 15 15 15 15  
sqlite> .headers on
```

```
sqlite> select * from person;  
sqlite> select * from job;
```

Enter .quit to leave sqlite.

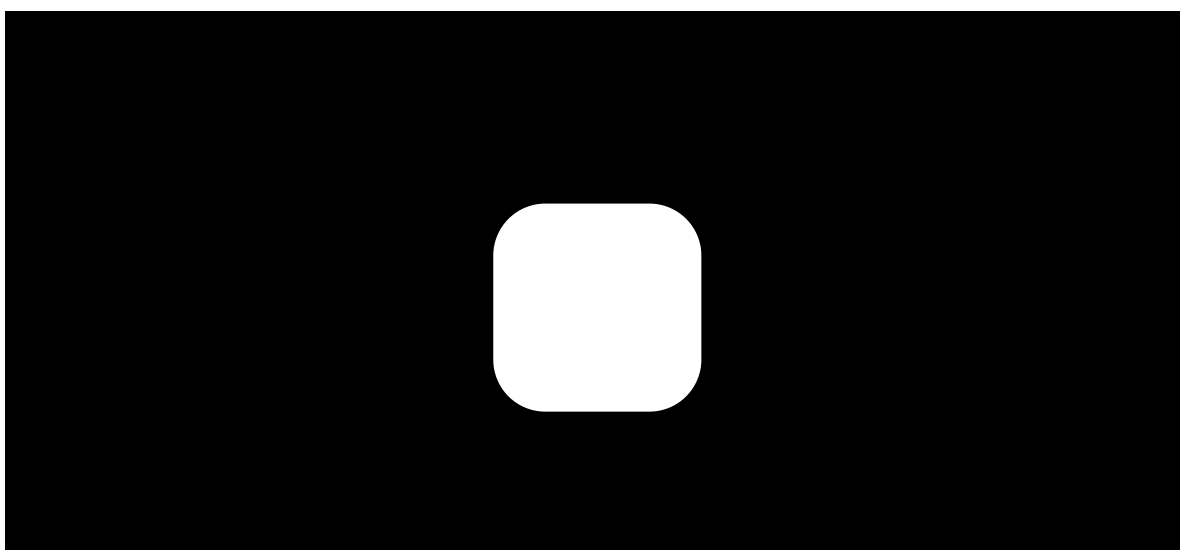
## Lesson Summary

In this lesson we have learned about how we define, store and retrieve data in a relational database using Python, Peewee and sqlite.

## Conclusion

## Summary

[Start of transcript. Skip to the end.](#)



So you've seen Peewee in action.  
It's actually very easy to be able to save  
your data  
and retrieve it from a relational



and retrieve it from a relational database.

And using classes, it makes everything seem simple and very Pythonic.

Now you'll have a chance to apply those techniques in your assignment.

Video

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