



Introduction to the Relational Model:

Entities



The relational model:



a brief history

Invented by Edgar F. Codd at IBM in 1970

Paradigm that formally defines the structure of entities and relationships present in data





Named object composed of data fields (attributes)

Attributes can be of any primitive data type, e.g. integer, string, Boolean

Additional data types in Postgres, e.g. timestamp, UUID

Classes represent Entities in object-oriented programming

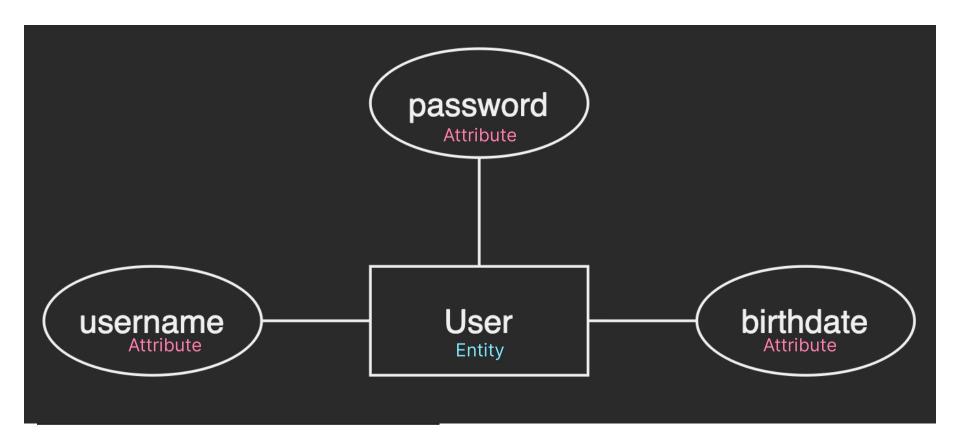




```
import datetime
class User:
    username = "admin"
    password = "admin123"
    birthdate = datetime.datetime.now()
# User object with three member variables
u1 = User()
print(u1.username, u1.password, u1.birthdate)
```











Entity relationship diagrams are programming language and implementation agnostic

```
import datetime

class User:
    username = "admin"
    password = "admin123"
    birthdate = datetime.datetime.now()

# User object with three member variables
u1 = User()
print(u1.username, u1.password, u1.birthdate)
```

