#Django Cheat Sheet and Quick Reference

#Database Engines

django.db.backends.postgresql

django.db.backends.mysql

django.db.backends.sqlite3

django.db.backends.oracle

#Example configuration in settings.py

```python
DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.mysql',

        'NAME': 'databasename',

        'USER': 'username',

        'PASSWORD': 'password',

        'HOST': '127.0.0.1',

        'PORT': '5432',

    }

}
```

#Model Fields

```
BooleanField
CharField
DateField
DateTimeField
DecimalField
EmailField
FileField
FloatField
ImageField
IntegerField
TextField
```

#Relationship Fields

```
ForeignKey

ManyToManyField
```

#Example Model

```python
from django.db import models
from django.utils import timezone


class Make(models.Model):
    name = models.CharField(max_length=15)
    factory_address = models.TextField()
    email = models.EmailField()

    def __str__(self):
        return self.name


class Car(models.Model):
    name = models.CharField(max_length=20)
    active = BooleanField()
    date_added = DateTimeField(default=timezone.now)
    price = FloatField()
    make = models.ForeignKey(Make)

    def __str__(self):
        return self.name
```

#Create Objects

```python
from .models import Make, Car

toyota = Make(name='Toyota', factory_address='Somewhere in Japan...',
        email='toyota@toyota.com')
toyota.save()

camry = Car(name='Camry', active=True, price=29999.99, make=toyota)

camry.save()
```

#Example Queries

```python
Car.objects.get(pk=1) #get car with primary key = 1
Make.objects.all()
Car.objects.filter(name='Camry')
Make.objects.all()[5:10]   #offset 5, limit 10
Car.objects.order_by('name')
Make.objects.filter(name__startswith='Toy')
Car.objects.filter(make__name='Toyota') #relationship query
```

#Useful Links

Django Website – https://www.djangoproject.com

Pretty Printed Website – http://prettyprinted.com

Pretty Pretty YouTube Channel – https://www.youtube.com/c/prettyprintedtutorials