**Customer Master**

class Customer(models.Model):

customer\_id = models.AutoField(primary\_key=True)

customer\_name = models.CharField(max\_length=100)

customer\_location = models.CharField(max\_length=100)

customer\_email = models.CharField(max\_length=100)

customer\_telephone = models.CharField(max\_length=100)

class CustomerOrder(models.Model):

order\_id = models.AutoField(primary\_key=True)

customer = models.ForeignKey(Customer, on\_delete=models.RESTRICT)

order\_date = models.DateTimeField(default=datetime.now)

order\_processed = models.BooleanField(default=False)

class CustomerOrderItems(models.Model):

line\_item\_id = models.AutoField(primary\_key=True)

customer\_order = models.ForeignKey(CustomerOrder, on\_delete=models.CASCADE)

product = models.ForeignKey(Product, on\_delete=models.CASCADE)

request\_quantity = models.IntegerField()

**Inventory Master**

class InventoryLocation(models.Model):

location\_id = models.AutoField(primary\_key=True)

aisle\_number = models.CharField(max\_length=50)

bin\_location = models.CharField(max\_length=50)

class Inventory(models.Model):

inventory\_id = models.AutoField(primary\_key=True)

product\_id = models.ForeignKey(Product, on\_delete=models.CASCADE)

available\_quantity = models.IntegerField()

reorder\_level = models.IntegerField(null=True)

inventory\_status = models.BooleanField(default=True)

inventory\_location = models.ForeignKey(InventoryLocation, on\_delete=models.CASCADE)

**Product & Supplier**

class ProductCategory(models.Model):

category\_id = models.AutoField(primary\_key=True)

category\_name = models.CharField(max\_length=50)

class Supplier(models.Model):

supplier\_id = models.AutoField(primary\_key=True)

supplier\_name = models.CharField(max\_length=50)

supplier\_contact\_number = models.IntegerField(max\_length=50)

class Product(models.Model):

product\_id = models.AutoField(primary\_key=True)

serial\_no = models.CharField(max\_length=50)

product\_name = models.CharField(max\_length=50)

product\_weight = models.FloatField()

price\_per\_unit = models.DecimalField(max\_digits=10, decimal\_places=2)

product\_category = models.ForeignKey(ProductCategory, on\_delete=models.CASCADE)

product\_supplier = models.ForeignKey(Supplier, on\_delete=models.CASCADE)

**Order Process**

class OrderProcess(models.Model):

transaction\_id = models.AutoField(primary\_key=True)

transaction\_date = models.DateField()

sales\_amount = models.FloatField()

processed\_by = models.ForeignKey(User, on\_delete=models.DO\_NOTHING)

customer\_order\_id = models.ForeignKey(Customer, on\_delete=models.CASCADE)

order\_processed = models.BooleanField(default=False)

class ProcessedLineItems(models.Model):

line\_item\_id = models.AutoField(primary\_key=True)

customer\_line\_item= models.ForeignKey(CustomerOrderItems, on\_delete=models.CASCADE)

process\_id = models.ForeignKey(OrderProcess, on\_delete=models.CASCADE)

inventory = models.ForeignKey(Inventory, on\_delete=models.CASCADE)

allocated\_quantity = models.IntegerField()

