Metier.Modele

/Users/Nico/GitHub/B3125/DASI/Periodel/c...dasi/gustatif/metier/modele/Client.java Page 1 of 3 Wed Mar 30 23:40:42 2016

```
package fr.insalyon.dasi.gustatif.metier.modele;
 1
 2
3
     import com.google.maps.model.LatLng;
 4
     import java.io.Serializable;
5
     import javax.persistence.Column;
6
     import javax.persistence.Entity;
 7
     import javax.persistence.GeneratedValue;
8
     import javax.persistence.GenerationType;
9
     import javax.persistence.Id;
10
11
     @Entity
12
     public class Client implements Serializable {
13
14
15
         @GeneratedValue(strategy = GenerationType.AUTO)
         private Long id;
16
17
         @Column(nullable = false)
18
         private String nom;
         @Column(nullable = false)
19
20
         private String prenom;
21
         @Column(nullable = false,unique = true)
22
         private String mail;
23
         @Column(nullable = false)
         private String motDePasse;
24
         @Column(nullable = false)
25
         private String adresse;
26
         @Column(nullable = false)
27
         private String telephone;
28
29
         @Column(nullable = false)
30
         private Double longitude;
31
         @Column(nullable = false)
         private Double latitude;
32
33
34
         public Client() {
35
36
37
         public Client(String nom, String prenom, String adresse, String mail,
38
                 String motDePasse, String telephone) {
39
             this.nom = nom:
40
             this.prenom = prenom;
41
             this.mail = mail;
42
             this.adresse = adresse;
43
             this.motDePasse = motDePasse;
44
             this.telephone = telephone;
         }
45
46
         public Long getId() {
47
48
             return id;
49
         }
50
51
         public String getNom() {
52
             return nom;
         }
53
54
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...dasi/gustatif/metier/modele/Client.java Page 2 of 3 Wed Mar 30 23:40:42 2016

```
55
          public String getPrenom() {
56
              return prenom;
57
          }
58
59
          public String getMail() {
60
              return mail;
          }
61
62
63
          public String getMotDePasse() {
64
               return motDePasse;
65
66
67
          public String getTelephone() {
68
               return telephone;
69
          }
70
71
          public String getAdresse() {
72
              return adresse;
73
74
75
          public Double getLongitude() {
              return longitude;
76
77
          }
78
79
          public Double getLatitude() {
80
               return latitude;
          }
81
82
83
          public LatLng getLatLng() {
              return new LatLng(latitude, longitude);
84
          }
85
86
87
          public void setNom(String nom) {
88
              this.nom = nom;
89
90
91
          public void setPrenom(String prenom) {
92
              this.prenom = prenom;
93
          }
94
95
          public void setMail(String mail) {
96
              this.mail = mail;
          }
97
98
99
          public void setMotDePasse(String motDePasse) {
100
              this.motDePasse = motDePasse;
          }
101
102
          public void setTelephone(String telephone) {
103
104
              this.telephone = telephone;
105
          }
106
          public void setAdresse(String adresse) {
107
108
              this.adresse = adresse:
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...dasi/gustatif/metier/modele/Client.java Page 3 of 3 Wed Mar 30 23:40:42 2016

```
}
109
110
111
        public void setCoordonnees(LatLng latLng) {
112
           this.longitude = latLng.lng;
           this.latitude = latLng.lat;
113
        }
114
115
116
        @Override
        public String toString() {
117
           118
119
120
121
122
        }
123
    }
124
125
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c.../gustatif/metier/modele/Restaurant.java Page 1 of 3 Wed Mar 30 23:41:23 2016

```
package fr.insalyon.dasi.gustatif.metier.modele;
 1
 2
3
     import com.google.maps.model.LatLng;
 4
     import java.io.Serializable;
 5
     import java.util.ArrayList;
6
     import java.util.List;
 7
     import javax.persistence.Column;
8
     import javax.persistence.Entity;
9
     import javax.persistence.GeneratedValue;
10
     import javax.persistence.GenerationType;
     import javax.persistence.Id;
11
12
     import javax.persistence.JoinColumn;
13
     import javax.persistence.OneToMany;
14
15
     @Entity
     public class Restaurant implements Serializable {
16
17
18
         @GeneratedValue(strategy = GenerationType.AUTO)
19
         private Long id;
         @Column(nullable = false)
20
21
         private String denomination;
         @Column(nullable = false)
22
23
         private String description;
24
         @Column(nullable = false)
25
         private String adresse;
         @Column(nullable = false)
26
27
         private Double longitude;
         @Column(nullable = false)
28
29
         private Double latitude;
30
           @JoinColumn(nullable = false)
     //
31
         @OneToMany
         private final List<Produit> produits = new ArrayList<>();
32
33
34
         public Restaurant() {
35
36
         public Restaurant(String denomination, String description, String
37
         adresse) {
38
             this.denomination = denomination;
39
             this.description = description;
40
             this.adresse = adresse;
         }
41
42
         public Long getId() {
43
44
             return id;
45
46
47
         public String getDenomination() {
48
             return denomination;
         }
49
50
51
         public String getDescription() {
             return description;
52
         }
53
```

```
54
55
          public String getAdresse() {
56
              return adresse;
57
          }
58
59
          public Double getLongitude() {
60
              return longitude;
61
62
63
          public Double getLatitude() {
64
              return latitude;
65
          }
66
67
          public LatLng getLatLng() {
              return new LatLng(latitude, longitude);
68
          }
69
70
71
          public List<Produit> getProduits() {
72
              return produits;
73
74
          public void setDenomination(String denomination) {
75
76
              this.denomination = denomination;
77
78
79
          public void setDescription(String description) {
80
              this.description = description;
81
82
83
          public void setAdresse(String adresse) {
84
              this.adresse = adresse;
85
86
87
          public void setCoordonnees(LatLng latLng) {
              this.longitude = latLng.lng;
88
89
              this.latitude = latLng.lat;
90
          }
91
92
          public void addProduit(Produit produit) {
93
              this.produits.add(produit);
94
95
96
          @Override
97
          public String toString() {
              return "Restaurant{" + "id=" + id + ", denomination=" +
98
              denomination
99
                       + ", description=" + description + ", adresse=" +
                       adresse
                       + ", longitudeAdresse=" + longitude + ",
100
                       latitudeAdresse="
101
                       + latitude + ", produits=" + produits + '}';
          }
102
103
104
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c.../gustatif/metier/modele/Restaurant.java Page 3 of 3 Wed Mar 30 23:41:23 2016

105 } 106

/Users/Nico/GitHub/B3125/DASI/Periodel/c...asi/gustatif/metier/modele/Produit.java Page 1 of 2 Wed Mar 30 23:41:40 2016

```
1
     package fr.insalyon.dasi.gustatif.metier.modele;
 2
 3
     import java.io.Serializable;
 4
     import javax.persistence.Column;
 5
     import javax.persistence.Entity;
6
     import javax.persistence.GeneratedValue;
 7
     import javax.persistence.GenerationType;
8
     import javax.persistence.Id;
9
10
     @Entity
     public class Produit implements Serializable {
11
12
13
         @Id
14
         @GeneratedValue(strategy = GenerationType.AUTO)
15
         private Long id;
         @Column(nullable = false)
16
17
         private String denomination;
         @Column(nullable = false)
18
19
         private String description;
         @Column(nullable = false)
20
21
         private Double prix;
         @Column(nullable = false)
22
23
         private Double poidsEnGrammes;
24
25
         public Produit() {
26
27
28
         public Produit(String denomination, String description, Double prix,
29
                  Double poidsEnGrammes) {
30
             this.denomination = denomination;
31
             this.description = description;
32
             this.prix = prix;
33
             this.poidsEnGrammes = poidsEnGrammes;
         }
34
35
         public Long getId() {
36
             return id;
37
38
39
40
         public String getDenomination() {
41
             return denomination;
42
         }
43
44
         public String getDescription() {
45
             return description;
46
47
48
         public Double getPoids() {
49
             return poidsEnGrammes;
50
         }
51
52
         public Double getPrix() {
53
             return prix;
54
         }
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...asi/gustatif/metier/modele/Produit.java Page 2 of 2 Wed Mar 30 23:41:40 2016

```
55
56
          public void setPrix(Double prix) {
57
              this.prix = prix;
58
59
          public void setDenomination(String denomination) {
60
              this.denomination = denomination;
61
62
63
          public void setDescription(String description) {
64
              this.description = description;
65
66
          }
67
          public void setPoids(Double poidsEnGrammes) {
68
69
              this.poidsEnGrammes = poidsEnGrammes;
70
71
72
         @Override
         public String toString() {
73
              return "Produit{" + "id=" + id + ", denomination=" +
74
              denomination
                       + ", description=" + description + ", prix=" + prix
+ ", poids=" + poidsEnGrammes + '}';
75
76
         }
77
78
79
     }
80
81
```

```
1
 2
      * To change this license header, choose License Headers in Project
                                                                                ₽
      Properties.
 3
      * To change this template file, choose Tools | Templates
 4
      * and open the template in the editor.
 5
6
     package fr.insalvon.dasi.gustatif.metier.modele;
 7
8
     import com.google.maps.model.LatLng;
9
     import java.io.Serializable;
     import java.util.ArrayList;
10
11
     import java.util.List;
     import javax.persistence.Column;
12
     import javax.persistence.Entity;
13
14
     import javax.persistence.GeneratedValue;
15
     import javax.persistence.GenerationType;
     import javax.persistence.Id;
16
     import javax.persistence.Inheritance;
17
18
     import javax.persistence.InheritanceType;
19
     import javax.persistence.JoinColumn;
20
     import javax.persistence.OneToMany;
21
     import javax.persistence.OrderBy;
22
     import javax.persistence.Version;
23
24
     /**
25
26
      * @author Nico
27
28
     @Entity
29
     @Inheritance (strategy = InheritanceType.JOINED)
30
     public abstract class Livreur implements Serializable {
31
32
         aId
         @GeneratedValue(strategy = GenerationType.AUTO)
33
34
         private Long id;
35
         @Column(nullable = false)
36
         private String mail;
37
         @Column(nullable = false)
38
         private String motDePasse;
39
         @Column(nullable = false)
40
         private String adresse;
41
         @Column(nullable = false)
42
         private Double longitude;
43
         @Column(nullable = false)
44
         private Double latitude;
         @Column(nullable = false)
45
46
         private Double chargeMaxEnGrammes;
47
         @Column(nullable = false)
48
         private Boolean disponible;
           @JoinColumn(nullable = false)
49
     //
50
         @OneToMany(mappedBy = "livreur")
         @OrderBy("dateDebut DESC")
51
52
         private List<Commande> commandes;
53
         @Version
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...asi/gustatif/metier/modele/Livreur.java Page 2 of 3 Wed Mar 30 23:42:21 2016

```
54
          @Column(name = "VERSION")
55
          private Integer version;
56
          public Livreur(){
57
58
              this.commandes = new ArrayList<>();
59
60
          public Livreur(String mail, String motDePasse, String adresse,
61
                   Double chargeMaxEnGrammes) {
62
              this.commandes = new ArrayList<>();
63
              this.mail = mail;
64
              this.motDePasse = motDePasse;
65
              this.adresse = adresse:
66
67
              this.chargeMaxEnGrammes = chargeMaxEnGrammes;
68
              this.disponible = true;
          }
69
70
71
          public Long getId() {
72
              return id;
73
74
75
          public String getMail() {
76
               return mail;
77
78
79
          public String getMotDePasse() {
80
              return motDePasse;
          }
81
82
83
          public String getAdresse() {
84
              return adresse;
85
86
87
          public Double getLongitude() {
88
              return longitude;
          }
89
90
91
          public Double getLatitude() {
92
              return latitude;
93
          }
94
95
          public LatLng getLatLng() {
              return new LatLng(latitude, longitude);
96
          }
97
98
99
          public Double getChargeMaxEnGrammes() {
100
              return chargeMaxEnGrammes;
101
102
          public List<Commande> getCommandes() {
103
104
              return commandes;
          }
105
106
107
          public Boolean getDisponible() {
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...asi/gustatif/metier/modele/Livreur.java Page 3 of 3 Wed Mar 30 23:42:21 2016

```
108
                return disponible;
109
           }
110
111
           public void setMail(String mail) {
112
                this.mail = mail;
113
114
115
           public void setMotDePasse(String motDePasse) {
116
                this.motDePasse = motDePasse;
           }
117
118
119
           public void setAdresse(String adresse) {
120
                this.adresse = adresse;
121
122
123
           public void setCoordonnees(LatLng latLng) {
124
                this.longitude = latLng.lng;
125
                this.latitude = latLng.lat;
           }
126
127
128
           public void setChargeMaxEnGrammes(Double chargeMaxEnGrammes) {
129
                this.chargeMaxEnGrammes = chargeMaxEnGrammes;
           }
130
131
132
           public void setDisponible(Boolean disponible) {
                this.disponible = disponible;
133
134
135
136
           public void addCommande(Commande commande) {
137
                this.commandes.add(commande);
           }
138
139
           @Override
140
           public String toString() {
141
                return "Livreur{" + "id=" + id + ", mail=" + mail + ",
142
                motDePasse="
                         + motDePasse + ", adresse=" + adresse + ", longitude="
+ longitude + ", latitude=" + latitude
143
144
                         + ", chargeMaxEnGrammes=" + chargeMaxEnGrammes
+ ", disponible " + disponible +", commandes=[" +
145
146
                                                                                         ₽
                         commandes
                         + "]" + '}';
147
148
           }
      }
149
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...ustatif/metier/modele/LivreurDrone.java Page 1 of 1 Wed Mar 30 23:42:09 2016

```
1
     /*
 2
      * To change this license header, choose License Headers in Project
                                                                                ₽
      Properties.
 3
      * To change this template file, choose Tools | Templates
 4
      * and open the template in the editor.
 5
6
     package fr.insalvon.dasi.gustatif.metier.modele;
7
8
     import javax.persistence.Column;
9
     import javax.persistence.Entity;
10
11
     /**
12
      *
13
      * @author Nico
14
15
     @Entity
16
     public class LivreurDrone extends Livreur{
17
         @Column(nullable = false)
         private Double vitesseMoyenneDeVolEnKmH; // en km/h
18
19
20
         public LivreurDrone() {
21
22
23
         public LivreurDrone(Double vitesseMoyenneDeVolEnKmH, String mail,
                 String motDePasse, String adresse, Double
24
                 chargeMaxEnGrammes) {
             super(mail, motDePasse, adresse, chargeMaxEnGrammes);
25
             this.vitesseMoyenneDeVolEnKmH = vitesseMoyenneDeVolEnKmH;
26
27
         }
28
29
30
31
         public Double getVitesseMoyenneDeVolEnKmH() {
32
             return vitesseMoyenneDeVolEnKmH;
33
34
35
         public void setVitesseMovenneDeVolEnKmH(Double
         vitesseMovenneDeVolEnKmH) {
36
             this.vitesseMovenneDeVolEnKmH = vitesseMovenneDeVolEnKmH;
37
         }
38
39
         @Override
         public String toString() {
40
             return "LivreurDrone{" + super.toString()
41
42
                     + ", vitesseMoyenneDeVolEnKmH="
43
                     + vitesseMovenneDeVolEnKmH + '}';
         }
44
     }
45
46
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...gustatif/metier/modele/LivreurVelo.java Page 1 of 2 Wed Mar 30 23:41:54 2016

```
1
     /*
      * To change this license header, choose License Headers in Project
 2
                                                                                 ₽
      Properties.
 3
      * To change this template file, choose Tools | Templates
 4
      * and open the template in the editor.
 5
6
     package fr.insalvon.dasi.gustatif.metier.modele;
7
     import javax.persistence.Column;
8
9
     import javax.persistence.Entity;
10
11
     /**
12
      *
13
      * @author Nico
14
      */
15
     @Entity
     public class LivreurVelo extends Livreur{
16
17
         @Column(nullable = false)
18
         private String nom;
         @Column(nullable = false)
19
20
         private String prenom;
21
22
23
         public LivreurVelo() {
24
25
26
         public LivreurVelo(String nom, String prenom, String mail,
                  String motDePasse, String adresse, Double
27
                                                                                 ₽
                  chargeMaxEnGrammes) {
28
             super(mail, motDePasse, adresse, chargeMaxEnGrammes);
29
             this.nom = nom;
30
             this.prenom = prenom;
         }
31
32
33
34
35
         public String getNom() {
36
             return nom;
37
         }
38
         public String getPrenom() {
39
40
             return prenom;
         }
41
42
43
         public void setNom(String nom) {
44
             this.nom = nom;
45
         }
46
47
         public void setPrenom(String prenom) {
48
             this.prenom = prenom;
49
         }
50
51
         @Override
52
         public String toString() {
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...gustatif/metier/modele/LivreurVelo.java Page 2 of 2 Wed Mar 30 23:41:54 2016

/Users/Nico/GitHub/B3125/DASI/Periodel/c...atif/metier/modele/LigneDeCommande.java Page 1 of 2 Wed Mar 30 23:42:40 2016

```
1
     /*
 2
      * To change this license header, choose License Headers in Project
                                                                                 ₽
      Properties.
 3
      * To change this template file, choose Tools | Templates
 4
      * and open the template in the editor.
 5
6
     package fr.insalvon.dasi.gustatif.metier.modele;
7
8
     import java.io.Serializable;
9
     import java.util.Objects;
     import javax.persistence.Column;
10
11
     import javax.persistence.Entity;
     import javax.persistence.GeneratedValue;
12
13
     import javax.persistence.GenerationType;
14
     import javax.persistence.Id;
     import javax.persistence.JoinColumn;
15
16
     import javax.persistence.ManyToOne;
17
18
     /**
19
      *
20
      * @author Nico
21
      */
22
     @Entity
23
     public class LigneDeCommande implements Serializable {
24
25
         @Id
26
         @GeneratedValue(strategy = GenerationType.AUTO)
27
         private Long id;
28
           @JoinColumn(nullable = false)
     //
29
         @ManyToOne
         private Produit produit;
30
         @Column(nullable = false)
31
32
         private Integer quantite;
33
34
35
         public LigneDeCommande() {
36
37
         public LigneDeCommande(Produit produit, Integer quantite) {
38
39
             this.produit = produit;
40
             this.quantite = quantite;
41
         }
42
         public Long getId() {
43
44
             return id;
45
46
47
         public Produit getProduit() {
48
             return produit;
         }
49
50
51
         public Integer getQuantite() {
52
             return quantite;
         }
53
```

/Users/Nico/GitHub/B3125/DASI/Periodel/c...atif/metier/modele/LigneDeCommande.java Page 2 of 2 Wed Mar 30 23:42:40 2016

```
54
55
          public Double getPrix() {
56
              if(produit != null) {
57
                  return new Double(quantite * produit.getPrix());
58
59
              return new Double(0.f);
          }
60
61
62
          public Double getPoidsEnGrammes() {
63
              if(produit != null) {
                  return new Double(quantite * produit.getPoids());
64
65
66
              return new Double(0.F);
          }
67
68
69
          public Double getPrixUnitaire() {
70
              if(produit != null) {
                  return new Double(produit.getPrix());
71
72
73
              return new Double(0.F);
74
          }
75
76
          public Double getPoidsUnitaireEnGrammes() {
              if(produit != null) {
77
78
                  return new Double(produit.getPoids());
79
80
              return new Double(0.F);
          }
81
82
83
          public void setProduit(Produit produit) {
84
              this.produit = produit;
85
86
87
          public void setQuantite(Integer quantite) {
88
              this.quantite = quantite;
89
          }
90
91
          @Override
          public String toString() {
92
              return "LigneDeCommande{" + "id=" + id + ", produit=[" + produit
93
                       + "], quantite=" + quantite + '}';
94
95
          }
96
97
98
99
      }
100
101
```

```
1
 2
      * To change this license header, choose License Headers in Project
                                                                                 ₽
      Properties.
 3
      * To change this template file, choose Tools | Templates
 4
      * and open the template in the editor.
 5
6
     package fr.insalvon.dasi.gustatif.metier.modele;
 7
8
     import java.io.Serializable;
9
     import java.util.ArrayList;
     import java.util.Date;
10
11
     import java.util.List;
     import javax.persistence.CascadeType;
12
13
     import javax.persistence.Column;
14
     import javax.persistence.Entity;
15
     import javax.persistence.GeneratedValue;
     import javax.persistence.GenerationType;
16
17
     import javax.persistence.Id;
18
     import javax.persistence.JoinColumn;
19
     import javax.persistence.ManyToOne;
20
     import javax.persistence.OneToMany;
21
     import javax.persistence.Temporal;
22
23
     /**
24
25
      * @author Nico
26
      */
27
     @Entity
28
     public class Commande implements Serializable{
29
30
         @Id
31
         @GeneratedValue(strategy = GenerationType.AUTO)
32
         private Long id;
         @Column(nullable = false)
33
         @Temporal(javax.persistence.TemporalType.TIMESTAMP)
34
35
         private Date dateDebut;
36
         @Temporal(javax.persistence.TemporalType.TIMESTAMP)
37
         private Date dateFin;
38
           @JoinColumn(nullable = false)
     //
39
         @ManyToOne
40
         private Restaurant restaurant;
41
     //
           @JoinColumn(nullable = false)
42
         @ManyToOne
         private Client client;
43
44
     //
           @JoinColumn(nullable = false)
         @OneToMany(cascade = CascadeType.ALL)
45
         private List<LigneDeCommande> lignesDeCommande;
46
47
           @JoinColumn(nullable = false)
     //
48
         @ManyToOne
49
         private Livreur livreur;
50
51
         public Commande() {
             this.lignesDeCommande = new ArrayList<>();
52
53
         }
```

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```
54
 55
          public Commande(Restaurant restaurant, Client client) {
 56
              this.lignesDeCommande = new ArrayList<>();
 57
              this.restaurant = restaurant;
 58
              this.client = client;
          }
 59
 60
          public Commande(Restaurant restaurant, Client client, Date
 61
          dateDebut) {
 62
              this.lignesDeCommande = new ArrayList<>();
 63
              this.restaurant = restaurant;
              this.client = client;
 64
              this.dateDebut = dateDebut;
 65
          }
 66
 67
 68
 69
          public Long getId() {
 70
              return id;
 71
 72
 73
 74
          public Date getDateDebut() {
 75
               return dateDebut;
 76
 77
 78
          public Date getDateFin() {
 79
              return dateFin:
 80
 81
 82
          public Restaurant getRestaurant() {
 83
              return restaurant;
 84
 85
 86
          public Client getClient() {
 87
              return client;
 88
          }
 89
 90
          public Livreur getLivreur() {
 91
              return livreur;
 92
 93
 94
          public Double getPoidsEnGrammes() {
 95
              Double poids = new Double(0.F);
 96
              for(LigneDeCommande l : lignesDeCommande)
 97
 98
                   poids += l.getPoidsEnGrammes();
 99
              return poids;
100
          }
101
102
103
          public Double getPrix() {
              Double prix = new Double(0.F);
104
105
              for(LigneDeCommande l : lignesDeCommande)
106
```

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```
107
                   prix += l.getPrix();
108
109
              return prix;
110
          }
111
          public List<LigneDeCommande> getLignesDeCommande() {
112
113
              return lignesDeCommande;
114
          }
115
116
117
          public void setDateDebut(Date dateDebut) {
118
              this.dateDebut = dateDebut;
119
          }
120
121
          public void setDateFin(Date dateFin) {
122
              this.dateFin = dateFin;
123
124
125
          public void setRestaurant(Restaurant restaurant) {
126
              this.restaurant = restaurant;
127
          }
128
129
          public void setClient(Client client) {
130
              this.client = client;
131
132
133
          public void setLivreur(Livreur livreur) {
134
              this.livreur = livreur;
135
136
137
          public void setLignesDeCommande(List<LigneDeCommande>
                                                                                  ₽
          lignesDeCommande) {
                this.lignesDeCommande.add(new
138
      LigneDeCommande(produit, quantite));
139
              this.lignesDeCommande = lignesDeCommande;
140
          }
141
142
          @Override
          public String toString() {
143
144
              return "Commande{ id=" + id + ", dateDebut=" + dateDebut + ",
              dateFin="
145
                       + dateFin + ", client=[" + client + "], restaurant=["
                       + restaurant + "], lignesDeCommande=[" +
146
                                                                                  ₽
                       lignesDeCommande
                       + "], livreur=[" + livreur.getMail() + "]"+'}';
147
148
          }
      }
149
150
```