Datenbankmodell - Yummy Yogurt

Tabellen und Integritätsbedingungen

Dardan Rrafshi

# Objekttypen

## Adresse

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Straße** | **Hausnummer** | **Postleitzahl** | **Wohnort** |
| 1 | Bei der Schule | 12 | 88515 | Langenenslingen |
| 2 | Goethestraße | 11 | 88996 | Monopoly |
| 3 | Schillerstraße | 9 | 88996 | Monopoly |
| 4 | Johannesstraße | 5b | 72458 | Albstadt |
| 5 | Am Schloss | 1 | 72488 | Sigmaringen |
| 6 | Am Rathaus | 3 | 72458 | Albstadt |

* I1: Straße is not null
* I2: Hausnummer is not null
* I3: Postleitzahl is not null
* I4: Wohnort is not null

## Benutzer

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Vorname** | **Nachname** | **Benutzername** | **Email** | **Passwort** | **Geburtsdatum** | **Beitrittsdatum** | **Adresse** |
| 1 | Dardan | Rrafshi | DonColon | [drrafshi@hotmail.de](mailto:drrafshi@hotmail.de) | 1234 | 30.01.1997 | 04.05.2018 | 1 |
| 2 | Hasan | Karadeniz | Krdnz57 | [Krdnz57@gmail.com](mailto:Krdnz57@gmail.com) | 234567 | 14.07.1998 | 04.05.2018 | 2 |
| 3 | Martin | Hafner | Martin | [hafnerma@gmx.de](mailto:hafnerma@gmx.de) | IT\_SEC\_GOD | 30.07.1996 | 04.05.2018 | 3 |
| 4 | Richard | Ries | RichardDieRakete | [richie@gmail.com](mailto:richie@gmail.com) | Reich | 14.03.1997 | 04.05.2018 | 4 |

* I1: Vorname is not null
* I2: Nachname is not null
* I3: Benutzername is unique, and Benutzername is not null
* I4: Email is unique, and Email is not null
* I5: Passwort is not null
* I6: Geburtsdatum is not null
* I7: Beitrittsdatum > Geburtsdatum, and Beitrittsdatum is not null
* I8: Adresse is not null

## Zutatenkategorie

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Preis (in Cent)** |
| 1 | Joghurtbasis | 150 |
| 2 | Früchte | 20 |
| 3 | Nüsse & Kerne | 20 |
| 4 | Schoko | 25 |
| 5 | Süßigkeiten | 30 |
| 6 | Soßen | 40 |

* I1: Name is unique, and Name is not null
* I2: Preis > 0, and Preis is not null

## Zutat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Vegan** | **Haram** | **Kategorie** |
| 1 | Bananen-Joghurt | False | False | 1 |
| 2 | Light-Joghurt | True | False | 1 |
| 3 | Apfel | True | False | 2 |
| 4 | Banane | True | False | 2 |
| 5 | Haselnuss | True | False | 3 |

* I1: Name is unique, and Name is not null
* I2: Vegan in (true, false), and Vegan is not null
* I3: Haram in (true, false), and Haram is not null
* I4: Kategorie is not null

## Yogurt

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Preis (in Cent)** | **veröffentlicht** | **Besitzer** |
| 1 | Banana Awesome | 350 | True | 1 |
| 2 | Nuts Royal | 540 | True | 1 |
| 3 | Fruity Loop | 270 | True | 2 |
| 4 | MC Fitty | 340 | True | 2 |
| 5 | Sugar Bombs | 500 | True | 3 |
| 6 | Gold Becher | 200 | True | 4 |
| 7 | Platin Becher | 220 | False | 4 |

* I1: Name is not null
* I2: Besitzer is not null
* I3: Preis > 0, and Preis is not null
* I4: veröffentlicht in (true, false), and veröffentlicht is not null

## Zutatenliste

|  |  |
| --- | --- |
| **Yogurt** | **Zutat** |
| 1 | 1 |
| 1 | 4 |
| 2 | 5 |
| 4 | 2 |

* I1: (Yogurt, Zutat) is primary key

## Bewertung

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Bewerter** | **Yogurt** | **Wertung** | **Nachricht** | **Bewertungsdatum** |
| 1 | 1 | 2 | 4 | Yogurt ist gut | 15.11.2018 23:51 |
| 2 | 1 | 3 | 5 | Yogurt ist lecker | 15.11.2018 08:30 |
| 3 | 2 | 1 | 5 | Yogurt is awesome | 15.11.2018 15:30 |
| 4 | 2 | 2 | 3 | LOL | 15.11.2018 17:45 |
| 5 | 3 | 2 | 1 | You are terrible | 15.11.2018 18:00 |

* I1: Bewerter is not null
* I2: Yogurt is not null
* I3: 1 <= Wertung <= 5, and Wertung is not null
* I4: Nachricht is not null
* I5: Bewertungsdatum is not null

## Bestellung

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Besteller** | **Gesamtpreis (in Cent)** | **Zahlungsart** | **Bestelldatum** |
| 1 | 1 | 1520 | PayPal | 23.04.2018 13:37 |
| 2 | 2 | 890 | Amazon-Pay | 24.04.2018 14:42 |
| 3 | 3 | 280 | Apple-Pay | 30.04.2018 15:33 |
| 4 | 1 | 200 | Mastercard | 04.05.2018 16:52 |

* I1: Besteller is not null
* I2: Gesamtpreis > 0, and Gesamtpreis is not null
* I3: Bestelldatum is not null
* I4: Zahlungsart in (PayPal, Amazon-Pay, Apple-Pay, Stripe, American-Express, JCB, Visa, Mastercard)

and Zahlungsart is not null

## Bestellposition

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Bestellung** | **Yogurt** | **Menge** |
| 1 | 1 | 1 | 2 |
| 2 | 1 | 2 | 3 |
| 3 | 2 | 5 | 1 |
| 4 | 2 | 6 | 2 |
| 5 | 3 | 1 | 3 |
| 6 | 4 | 1 | 1 |

* I1: Bestellung is not null
* I2: Yogurt is not null
* I3: 0 < Menge <= 2000, and Menge is not null