Datenbankmodell - Yummy Yogurt

Tabellen und Integritätsbedingungen

Dardan Rrafshi

# Objekttypen

## Adresse

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Straße** | **Hausnummer** | **Zusatz** | **PLZ** | **Wohnort** |
| 1 | Bei der Schule | 12 |  | 88515 | Langenenslingen |
| 2 | Goethestraße | 11 | A | 88996 | Monopoly |
| 3 | Schillerstraße | 9 | B | 88996 | Monopoly |
| 4 | Johannesstraße | 5 |  | 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: PLZ is not null
* I4: Wohnort is not null

## Benutzer

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Vorname** | **Nachname** | **Benutzername** | **Email** | **Passwort** | **Geburtsdatum** | **Beitrittsdatum** | **Bild** | **AdressID** |
| 1 | Dardan | Rrafshi | DonColon | [drrafshi@hotmail.de](mailto:drrafshi@hotmail.de) | 1234 | 30.01.1997 | 04.05.2018 | 01011 | 1 |
| 2 | Hasan | Karadeniz | Krdnz57 | [Krdnz57@gmail.com](mailto:Krdnz57@gmail.com) | 234567 | 14.07.1998 | 04.05.2018 | 01111 | 2 |
| 3 | Martin | Hafner | Martin | [hafnerma@gmx.de](mailto:hafnerma@gmx.de) | IT\_SEC\_GOD | 30.07.1996 | 04.05.2018 | 00111 | 3 |
| 4 | Richard | Ries | RichardDieRakete | [richie@gmail.com](mailto:richie@gmail.com) | Reich | 14.03.1997 | 04.05.2018 | 01101 | 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: Geburtsdatum is not null
* I6: Passwort is not null
* I7: AdressID is not null
* I8: Beitrittsdatum > Geburtsdatum and Beitrittsdatum 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** | **ist Vegan** | **ist Haram** | **ZutatenkategorieID** |
| 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: ist Vegan in (True, False) and IstVegan is not null
* I3: ist Haram in (True, False) and IstHaram is not null
* I4: ZutatenkategorieID is not null

## Yogurt

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **BenutzerID** | **Bild** | **veröffentlicht** |
| 1 | Banana Awesome | 1 | 01011 | True |
| 2 | Nuts Royal | 1 | 01111 | True |
| 3 | Fruity Loop | 2 | 00111 | True |
| 4 | MC Fitty | 2 | 01101 | True |
| 5 | Sugar Bombs | 3 | 00001 | True |
| 6 | Gold Becher | 4 | 00110 | True |
| 7 | Platin Becher | 4 | 10101 | False |

* I1: Name is not null
* I2: BenutzerID is not null
* I3: veröffentlicht in (True, False) and veröffentlicht is not null

## Zutatenliste

|  |  |
| --- | --- |
| **YogurtID** | **ZutatID** |
| 1 | 1 |
| 1 | 4 |
| 2 | 5 |
| 4 | 2 |

* I1: (YogurtID, ZutatID) is primary key

## Bewertung

|  |  |  |
| --- | --- | --- |
| **BenutzerID** | **YogurtID** | **Wertung** |
| 1 | 2 | 4 |
| 1 | 3 | 5 |
| 2 | 1 | 5 |
| 2 | 2 | 3 |
| 3 | 2 | 1 |

* I1: (BenutzerID, YogurtID) is primary key
* I2: 1 <= Wertung <= 5 und Wertung is not null

## Bestellung

|  |  |  |
| --- | --- | --- |
| **ID** | **BenutzerID** | **Bestelldatum** |
| 1 | 1 | 23.04.2018 13:37 |
| 2 | 2 | 24.04.2018 14:42 |
| 3 | 3 | 30.04.2018 15:33 |
| 4 | 1 | 04.05.2018 16:52 |

* I1: BenutzerID is not null
* I2: Bestelldatum is not null

## Bestellposition

|  |  |  |
| --- | --- | --- |
| **BestellID** | **YogurtID** | **Menge** |
| 1 | 1 | 2 |
| 1 | 2 | 3 |
| 2 | 5 | 1 |
| 2 | 6 | 2 |
| 3 | 1 | 3 |
| 4 | 1 | 1 |

* I1: (BestellID, YogurtID) is primary key
* I2: Menge > 0 and Menge is not null