**Snowboard school business rules**

Customer needs to fill in information about themselves (Full name, age, email, phone number, address) and gets a costumer number assigned.

Every customer needs to fill in the full name and phone number of a contact person in case of emergencies.

When booking to a snowboarding school the customer will select between beginner, intermediate and advanced classes.

When booking snowboard classes, the booking will have a booking number, booking date and price stored.

Snowboard classes need to have a start date, end date, id, price and level stored. There is only one teacher assigned to each class.

The snowboarding school has the following information stored (Address, phone number, opening hours, school name, school id). The school has multiple phone numbers.

The snowboarding school offers multiple snowboard classes and costumers can book as many classes as they want.

The snowboarding school employs staff members. The staff roles are Manager, Teacher, Customer Service A staff member cannot have multiple roles.

All staff members have information stored (Staff number, full name, age, address, phone number, email, salary).

Teachers are assigned to snowboard classes; they can teach multiple classes on different levels.

Teachers all have their own costumer rating.

Managers manage the teachers/customer service. The teachers and customer service staff are managed by one manager.

The manager receives a bonus apart from the normal salary.

Costumer service staff helps the customers and are assigned to a service type (Booking, billing, group sales).

# Logical database model

**Customer(customerNo, fullName, phoneNumber, age, eMail, address)**

**Primary Key: customerNo**

**Booking(customerNo, classId, bookingNumber, bookingDate, price)**

**Primary Key: customerNo, classId**

**Foreign Key: customerNo references Customer(customerNo)**

**Foreign Key: classId references Class(classId)**

**Class(classId, startDate, endDate, price, schoolId, teacherNo)**

**Primary Key: classId**

**Foreign Key: schoolId references School(schoolId)**

**Foreign Key: teacherNo references Teacher(staffNo)**

**ContactPerson(customerNo, name, phoneNumber)**

**Primary Key: customerNo**

**Foreign Key: customerNo references Customer(customerNo)**

**School(schoolId, phoneNumber, openingHours, address, schoolName)**

**Primary Key: schoolId**

**Foreign Key: phoneNumber references PhoneNumber(phoneNumber)**

**Staff**(staffNo, managerNo, fullname, age, salary, schoolId)

**Primary Key:** staffNo

**Foreign Key:** managerNo **references** Manager(staffNo)

**Foreign Key:** schoolId **references** School(schoolId)

**PhoneNumber**(phonenumber, schoolId)

**Primary Key:** phoneNumber

**Foreign Key:** schoolId **references** School(schoolId)

**Teacher**(staffNo, managerNo, fullname, age, salary, schoolId, rating)

**Primary Key:** staffNo

**Foreign Key:** managerNo **references** Manager(staffNo)

**Foreign Key:** schoolId **references** School(schoolId)

**Manager**(staffNo, managerNo, fullname, age, salary, schoolId, bonus)

**Primary Key:** staffNo

**Foreign Key:** managerNo **references** Manager(staffNo)

**Foreign Key:** schoolId **references** School(schoolId)

**CustomerService**(staffNo, managerNo, fullname, age, salary, schoolId, serviceType)

**Primary Key:** staffNo

**Foreign Key:** managerNo **references** Manager(staffNo)

**Foreign Key:** schoolId **references** School(schoolId)

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| --- | --- | --- | --- |
| Attribute | Domain name | Meaning | Domain Definition |
| customerNo | CustomerNumber | The set of all customer numbers | Integer |
| classId | ClassID | The set of all class ids | Character: size 4 range B001-B999 and I001-I999 and A001-A999 |
| schoolId | SchoolID | The set of all school ids | Character: size 5 range SB001-SB999 |
| schoolName | SchoolName | The set of all school names | Character: size 25 |
| rating | Rating | The set of all teacher ratings | decimal: size (2,1) range 0.0-5.0 |
| serviceType | ServiceType | The set of all service types | Character: 20 value “Billing” or “Booking” or “Group Sales” |
| salary | Salary | Possible values of staff salaries | decimal: size (7,2) range 6000.00-40000.00 |