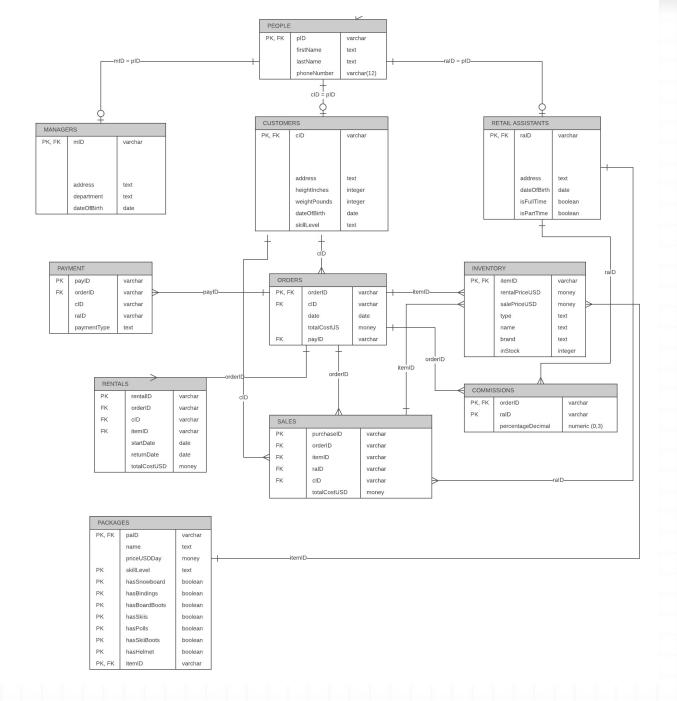
SKI AND SNOWBOARD RENTAL AND SHOP

By Laura Florez

EXECUTIVE SUMMARY

- O Keeping up with inventory can be hard, specially with many different types of items being kept in storage. Many times items get lost or miscounted. This database design has been created in order to facilitate an easier way to keep track of inventory.
- O The database has been designed based on a shop that does rentals and sells snowboarding and skiing gear. The store offers different packages that offer different amounts of gear based on the customer's age and skills levels. The customer has the opportunity to later purchase the gear that he or she used.
- O The store will be able to keep track of what items are rented and sold, while also monitoring those items' movement in the inventory. The store will be able to keep track of the finances and commissions for any of their retail assistants. The database will have more features.



PEOPLE TABLE

O The table keeps track of any person's basic information, either customer, retail assistant or manager, that has been part of the database

```
CREATE TABLE People (
pID varchar not null,
firstName text,
lastName text,
phoneNumber varchar(12),
primary key (pID)
);
```

	pid character varying	firstname text	lastname text	phonenumber character varying(12)
1	p01	Sarah	Jenkins	203-322-4456
2	p02	Angela	Brown	845-234-6796
3	p03	Ryan	Lant	845-123-0954
4	p04	Kara	Park	860-104-6788
5	p05	Rachel	Campbell	914-111-3345
6	p06	Erin	Kelly	213-109-0713
7	p07	Eric	Diaz	631-657-3956
8	p08	Sara	Sanchez	203-100-0234
9	p09	Daniela	Hollis	203-520-7420
10	p10	Christina	Loya	860-060-2092

MANAGERS TABLE

O The table keeps track of anybody considered a manager, which entitles being the supervisor for a retail assistant

```
CREATE TABLE Managers (
mID varchar not null references People(pID),
department text,
dateOfBirth date,
primary key (mID)
);
```

		mid character varying	address text	department text	dateofbirth date
l	1	p03	752 Black Bear Rd, Jamaica VT	Snowboarding	1967-01-03
	2	p07	876 Lake Road, Dover VT	Skiing	1975-03-21

RETAIL ASSISTANTS

O The table keeps track of any person consider a retail assistant, which would include helping customers either renting or purchasing equipment

```
CREATE TABLE Retail_Assistants (
raID varchar not null references People(pID),
address text,
dateOfBirth date,
isFullTime boolean,
isPartTime boolean,
primary key (raID)
);
```

	raid character varying	address text	dateofbirth date	isfulltime boolean	isparttime boolean
1	p01	432 Main Street, Dover VT	1996-12-19	f	t
2	p02	88 Circle Drive, Jamaica VT	1988-01-05	t	f
3	p04	90 Circle Drive, Jamaica VT	1987-01-05	t	f

CUSTOMERS TABLE

O The table keeps track of any person considered a customer by purchasing or renting any gear

```
CREATE TABLE Customers (
cID varchar not null references People(pID),
address text,
heightInches integer,
weightPounds integer,
dateOfBirth date,
skillLevel text,
primary key (cID)
);
```

Data	Output Explain	Messages	History				
	cid character varying	address text		heightinches integer	weightpounds integer	dateofbirth date	skilllevel text
	n05	32 North Rd	Poughkeensie NY	64	130	1979-07-07	Reginner

Output pane

	cid character varying	address text	heightinches integer	weightpounds integer	dateofbirth date	skilllevel text
1	p05	32 North Rd, Poughkeepsie NY	64	130	1979-07-07	Beginner
2	p06	21 Hollywood Rd, Los Angeles CA	66	150	1981-04-20	Advanced
3	p08	1 Whispering Way, Brookfield CT	62	120	1994-03-27	Intermediate
4	p09	9 Candlewood Rd, New Milford CT	66	145	1996-12-18	Intermediate
5	p10	7 Milton Rd, Litchfield CT	60	120	1994-11-19	Beginner

ORDERS TABLE

O The table keeps track of anything the customers placed an order for

```
CREATE TABLE Orders (
orderID varchar not null unique,
cID varchar not null references Customers(cID),
date date,
totalCostUS money,
primary key (orderID)
);
```

	orderid character varying	cid character varying	date date	totalcostus money
1	001	p05	2000-11-12	\$120.00
2	002	p06	2000-01-23	\$100.00
3	003	p08	2002-02-22	\$120.00
4	004	p09	2010-03-20	\$150.00
5	005	p10	2011-10-12	\$160.00
6	006	p05	2000-11-12	\$200.00

PAYMENT TABLE

O The table keeps track of all payments made for the orders by the customers

```
CREATE TABLE Payment(
   payID varchar not null unique,
   orderID varchar not null references Orders(orderID),
   cID varchar not null references Customers(cID),
   raID varchar not null references Retail_Assistants(raID),
   paymentType text,
   primary key (payID)
);
```

	payid character varying	orderid character varying	cid character varying	raid character varying	paymenttype text
1	pt01	001	p05	p02	credit card
2	pt02	002	p06	p02	credit card
3	pt03	003	p08	p04	credit card
4	pt04	004	p09	p01	check
5	pt05	005	p10	p04	cash
6	pt06	006	p05	p02	debit card

INVENTORY TABLE

O The table keeps track of all items in the shop, regardless if they are bought or rented

```
CREATE TABLE Inventory (
itemID varchar not null unique,
rentalPriceUSD money,
salePriceUSD money,
type text,
name text,
brand text,
);
```

	itemid character	varying	rentalpriceusd money	salepriceusd money	type text	name text	brand text	instock integer
1	i0001		\$10.00	\$100.00	snowboard	black raven	Burton	100
2	i0002		\$10.00	\$120.00	snowboard	fast lion	Burton	100
3	i0003		\$10.00	\$150.00	snowboard	fast lion 2.0	Burton	100
4	i0004		\$10.00	\$200.00	snowboard	ZPX	Burton	100
5	i0005		\$10.00	\$80.00	ski	Bolt100	Solomon	100
6	i0006		\$10.00	\$130.00	ski	Plowers	Solomon	100
7	i0007		\$10.00	\$50.00	ski	FlyThrough	Solomon	100
8	i0008		\$10.00	\$210.00	helmet	G124	Giro	100
9	i0009		\$10.00	\$30.00	helmet	G098	Giro	100
10	i0010		\$10.00	\$30.00	helmet	G000	Giro	100
11	i0011		\$10.00	\$30.00	helmet	G567	Giro	100
12	i0012		\$10.00	\$30.00	helmet	G037	Giro	100
13	i0013		\$10.00	\$30.00	helmet	G987	Giro	100
14	i0014		\$10.00	\$20.00	boardBoots	BB-X	Burton	100
15	i0015		\$10.00	\$25.00	boardBoots	BB-S	Burton	100
16	i0016		\$10.00	\$40.00	boardBoots	BB-P	Burton	100
17	i0017		\$10.00	\$15.00	skiBoots	SB-5	Solomon	100
18	i0018		\$10.00	\$25.00	skiBoots	SB-6	Solomon	100
19	i0019		\$10.00	\$30.00	skiBoots	SB-0	Solomon	100
20	i0020		\$10.00	\$40.00	Bindings	X12	Burton	100
21	i0021		\$10.00	\$40.00	Bindings	X05	Burton	100
22	i0022		\$10.00	\$40.00	Bindings	X04	Burton	100
23	i0023		\$10.00	\$30.00	poles	PX453	Solomon	100
24	i0024		\$10.00	\$30.00	poles	PX546	Solomon	100

SALES TABLE

O The table keeps track of the items that are purchased by the customer

```
CREATE TABLE Sales (
purchaseID varchar not null unique,
orderID varchar not null references Orders(orderID),
itemID varchar not null references Inventory(itemID),
raID varchar not null references Retail_Assistants(raID),
cID varchar not null references Customers(cID),
totalCostUSD money,
primary key (purchaseID)
);
```

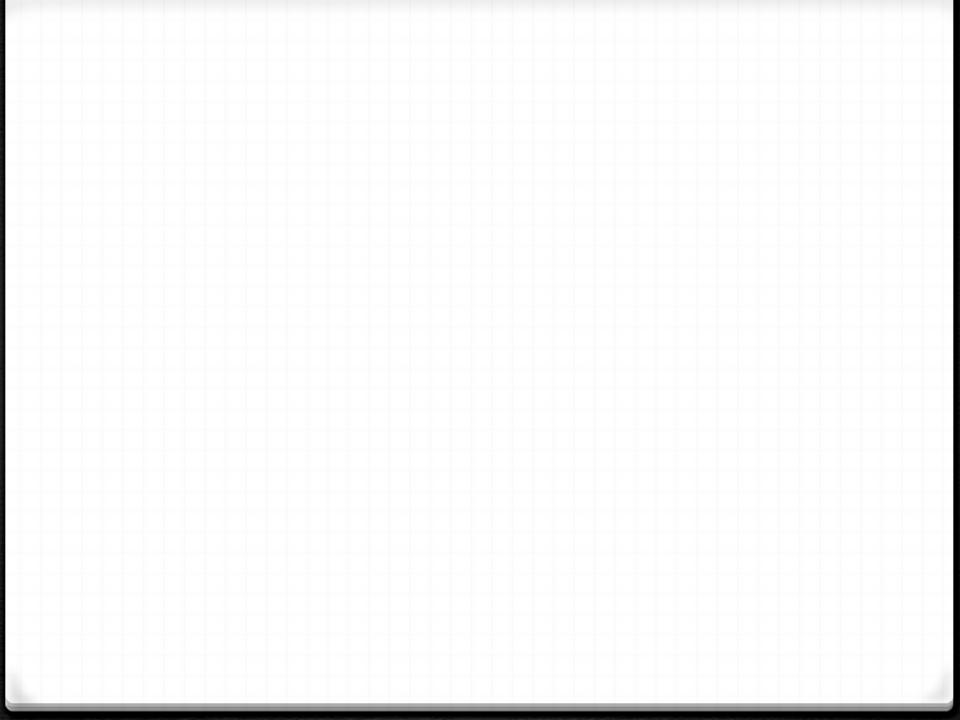
	purchaseid character varying	orderid character varying	itemid character varying	raid character varying	cid character varying	totalcostusd money
1	po001	001	i0001	p02	p05	\$100.00
2	po002	002	i0002	p02	p06	\$120.00
3	po003	003	i0003	p04	p08	\$150.00
4	po004	004	i0004	p01	p09	\$200.00

RENTALS TABLE

O The table keeps track of all items or packages that customers rented

```
CREATE TABLE Rentals (
rentalID varchar not null unique,
orderID varchar not null references Orders(orderID),
cID varchar not null references Customers(cID),
paID varchar not null references Packages((paID),
startDate date,
returnDate date,
totalCostUSD money,
primary key (rentalD, paID)

);
```



PACKAGES TABLE

O The table keeps track of what items each package has to offer to the customer

```
CREATE TABLE Packages (
 paID varchar not null,
 name` text,
 priceUSD money,
 skillLevel text not null,
 hasSnowboard boolean not null,
 hasBindings boolean not null,
 hasBoardBoots boolean not null,
hasSkiis boolean not null,
 hasPolls boolean not null,
 hasSkiiBoots boolean not null,
 hasHelmet boolean not nill,
 itemID varchar not null references Invetnory(itemID(,
 primary key (paID, skillLevel, hasSnowboard, hasBindings, hasBoardBoots, hasSkiis,
hasPolls.
 hasSkiiBoots, 'hasHelmet),
```

CREATE TYPE skillLevel AS ENUM ('Beginner', 'Intermediate', 'Advanced');

	paid character varying	name text		skilllevel text	hassnowboard boolean	hasbindings boolean	hasboardboots boolean		haspolls boolean		hashelmet boolean	itemid character varying
1	pa001	bronzePack	\$40.00	beginner	t	t	t	f	f	f	t	i0001
2	pa001	bronzePack	\$40.00	beginner	t	t	t	f	f	f	t	i0008
3	pa001	bronzePack	\$40.00	beginner	t	t	t	f	f	f	t	i0014
4	pa001	bronzePack	\$40.00	beginner	t	t	t	f	f	f	t	i0020
5	pa002	silverPack	\$60.00	intermediate	t	t	t	f	f	f	t	i0002
6	pa002	silverPack	\$60.00	intermediate	t	t	t	f	f	f	t	i0009
7	pa002	silverPack	\$60.00	intermediate	t	t	t	f	f	f	t	i0015
8	pa002	silverPack	\$60.00	intermediate	t	t	t	f	f	f	t	i0021
9	pa003	goldPack	\$80.00	advanced	t	t	t	f	f	f	t	i0003
10	pa003	goldPack	\$80.00	advanced	t	t	t	f	f	f	t	i0010
11	pa003	goldPack	\$80.00	advanced	t	t	t	f	f	f	t	i0016
12	pa003	goldPack	\$80.00	advanced	t	t	t	f	f	f	t	i0022
13	pa004	redPack	\$40.00	beginner	f	f	f	t	t	t	t	i0005
14	pa004	redPack	\$40.00	beginner	f	f	f	t	t	t	t	i0011
15	pa004	redPack	\$40.00	beginner	f	f	f	t	t	t	t	i0017
16	pa004	redPack	\$40.00	beginner	f	f	f	t	t	t	t	i0023
17	pa005	bluePack	\$60.00	intermediate	f	f	f	t	t	t	t	i0006
18	pa005	bluePack	\$60.00	intermediate	f	f	f	t	t	t	t	i0012
19	pa005	bluePack	\$60.00	intermediate	f	f	f	t	t	t	t	i0018
20	pa005	bluePack	\$60.00	intermediate	f	f	f	t	t	t	t	i0024
21	pa006	yellowPack	\$80.00	advanced	f	f	f	t	t	t	t	i0007
22	pa006	yellowPack	\$80.00	advanced	f	f	f	t	t	t	t	i0013
23	pa006	yellowPack	\$80.00	advanced	f	f	f	t	t	t	t	i0019
24	na006	vellowPack	\$80.00	advanced	f	f	f	t.	t.	t	t.	i0025

COMISSIONS TABLE

O The table keeps track of how much money is earned by a retail assistant based of the total cost of a customer's order

```
CREATE TABLE Comissions (
orderID varchar not null references Orders(orderID),
raID varchar not null references Retail_Assistants(raID),
percentageDecimal numeric (0,3),
primary key (orderID, raID)
);
```

Output p	ane							
Data Output Explain		1	Messages	ı	History			
orderid character varyir		varying	raid character varying			percentagedecima numeric(4,3)		
1	001		p02			0.030		
2	002		p02			0.050		
3	003		p04			0.050		
4	4 004		p01				0.050	