Introduction to Database

Course Project

CIS336

Nathan Rivera

Devry

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* What is the name of your business?

Pixel Tek Studios

* Who will be the users of the system (managers, employees, customers)?

Customers

* What product(s) and or service(s) does it sell? Be specific.

Pixel Tek Studios will develop and sell a variety of indie style software/games.

* Who are the customers? What is the customer base?

The focus consumer group for Pixel Tek Studios products will be gamers ranging in the age group of young adult to adults.

* What sales and distribution channels are used?

The software will primarily be available through digital distribution this includes online retail stores (IE Steam, GOG, or Desura) as well as the company website that will provide product codes to be redeemed on said online retail stores.

* How are payments made?

Payments are made only through digital purchases, including debit/credit purchases or through online payment services (IE Paypal)

* Are products delivered or shipped to customers in some way?

Products are only delivered digitally to be downloaded to the preferred device of the customers choosing. There will be no physical copies of any software available unless special events require it.

* Are sales reps involved? Are they paid on commission?

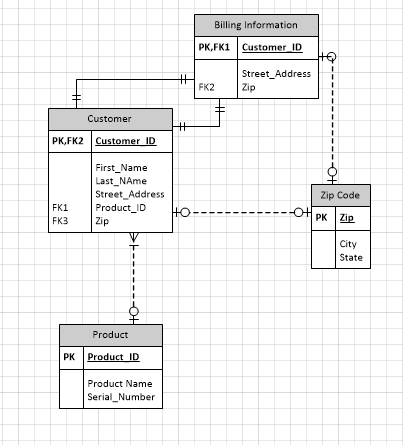
As all the products are sold through a third party service (IE Steam) they will take a percentage of each sale determined by the third party.

* What type of reports are needed by the business?

Customer and professional reviews are the most important reports in order for the business to be successful. If the reviews are bad, the sales will decrease proportionately based on the negative reviews.

Sales documents are also very important, the company has to keep very strict watch on their sales and budget.

ERD:



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Table Name | Column Name | Description of Data | Data Type | Length | Not Null | PK | FK |
|  |  |  |  |  |  |  |  |
| **Customer Information** |  |  |  |  |  |  |  |
|  | Customer\_ID | Id number | integer | 10 |  | y |  |
|  | First\_Name | First name | varchar | 25 | y |  |  |
|  | Last\_Name | Last name | varchar | 25 | y |  |  |
|  | Street\_Address | Primary address | varchar | 50 |  |  |  |
|  | Zip | Zip code | integer | 11 |  |  | y |
|  | Product\_ID |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Zip Code** |  |  |  |  |  |  |  |
|  | Zip | Zip code | integer | 11 |  | y |  |
|  | City | city name | varchar | 25 | y |  |  |
|  | State | State name | varchar | 25 | y |  |  |
|  |  |  |  |  |  |  |  |
| **Product** |  |  |  |  |  |  |  |
|  | Product\_ID | ID of software available for sale | integer | 10 |  | y |  |
|  | Serial\_Number | Serial number for individual sofware | integer | 8 | y |  |  |
|  | Product\_Name | Name of software |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Billing Information** |  |  |  |  |  |  |  |
|  | Customer\_ID | Id number | integer | 10 |  | y | y |
|  | Street\_Address | Primary address | varchar | 50 | y |  |  |
|  | Zip | Zip code | integer | 11 | y |  | y |

Data Dictionary:

drop table if exists billing\_information;

drop table if exists customer;

drop table if exists product;

drop table if exists zip\_code;

create table customer

(

Customer\_ID integer(10) primary key,

First\_Name varchar(25) not null,

Last\_Name varchar(25) not null,

Street\_Address varchar(50),

Zip integer(11),

Product\_ID integer(10)

);

create table zip\_code

(

Zip integer(11) primary key,

City varchar(25) not null,

State varchar(25) not null

);

create table product

(

Product\_ID integer(10) primary key,

Serial\_Number varchar(10) not null,

Product\_Name varchar(25)

);

create table billing\_information

(

Customer\_ID integer(10) primary key,

Street\_Address varchar(50) not null,

Zip integer(11) not null

);

alter table customer

add foreign key (Zip) references zip\_code(Zip),

add foreign key (Product\_ID) references product(Product\_ID);

alter table billing\_information

add foreign key (Customer\_ID) references customer(Customer\_ID),

add foreign key (Zip) references zip\_code(Zip);

set foreign\_key\_checks=0;

insert into customer (Customer\_ID, First\_Name, Last\_Name, Street\_Address, Zip, Product\_ID)

values (1,'Tristin','Damon','779 Homestead Drive Hendersonville', 28792, 1),

(2,'Whitney','Davis','885 Route 10 Wyandotte',48192, 2),

(3,'Dyson','Harvie','121 Creekside Drive Waynesboro',17268, 3),

(4,'Ward','Horatio','902 5th Street South North Bergen',07047, 4),

(5,'Jem','Stanford','534 Broadway Pawtucket',02860, 5);

insert into zip\_code(Zip,City,State)

values (28792, 'Hendersonville', 'NC'),

(48192, 'Wyandotte', 'MI'),

(17268, 'Waynesboro', 'PA'),

(07047, 'North Bergen', 'NJ'),

(02860, 'Pawtucket', 'RI');

insert into product (Product\_ID,Serial\_Number,Product\_Name)

values (1, 'N9TT-9G0A', 'C&C Red Alert'),

(2, 'QK6A-JI6S', "C&C Yuri's revenge"),

(3, 'XNSS-HSJW', 'C&C Red Alert 3'),

(4, 'NHLE-L6MI', 'C&C Tiberium Sun'),

(5, '6ETI-UIL2', 'C&C 4');

-- dont ever buy this game, it's terrible also EA is a terrible company

insert into billing\_information (Customer\_ID, Street\_Address, Zip)

values (1,'779 Homestead Drive Hendersonville', 28792),

(2,'885 Route 10 Wyandotte',48192),

(3,'121 Creekside Drive Waynesboro',17268),

(4,'902 5th Street South North Bergen',07047),

(5,'534 Broadway Pawtucket',02860);

set foreign\_key\_checks=1;

select \* from customer;

select \* from zip\_code;

select \* from product;

select \* from billing\_information;

