

PRS Capstone Project Data Model

prs Database

Table: User [1 create first]

Field	Type
ID	INT
UserName	VARCHAR(20)
Password	VARCHAR(10)
FirstName	VARCHAR(20)
LastName	VARCHAR(20)
PhoneNumber	VARCHAR(12)
Email	VARCHAR(75)
IsReviewer	TinyInt
IsAdmin	TinyInt

Table: Request [3]

Field	Type
ID	INT
UserID	INT
Description	VARCHAR(100)
Justification	VARCHAR(255)
DateNeeded	DATE
DeliveryMode	VARCHAR(25)
Status	VARCHAR(20)
Total	DECIMAL(10,2)
SubmittedDate	DATETIME
ReasonForRejection	VARCHAR(100) - NULLABLE

Table: LineItem [5]

Field	Type
ID	INT
RequestID	INT
ProductID	INT
Quantity	INT

Table: Product [4]

Field	Type
ID	INT
VendorID	INT
PartNumber	VARCHAR(50)
Name	VARCHAR(150)
Price	DECIMAL(10,2)
Unit	VARCHAR(255) - NULLABLE
PhotoPath	VARCHAR(255) - NULLABLE

Table: Vendor [2]

Field	Type
ID	INT
Code	VARCHAR(10)
Name	VARCHAR(255)
Address	VARCHAR(255)
City	VARCHAR(255)
State	VARCHAR(2)
Zip	VARCHAR(5)
PhoneNumber	VARCHAR(12)
Email	VARCHAR(100)

Foreign Keys

From Table	From Field	To Table	To Field
request	UserID	user	ID
product	VendorID	vendor	ID
lineltem	ProductID	product	ID
lineltem	RequestID	request	ID

Other Constraints

Table	Constraint Name	Unique Field(s)
user	uname	Username
lineltem	req_pdt	RequestID, ProductID
product	vendor_part	VendorID, PartNumber
vendor	vcode	Code

Notes

- All fields should be considered NOT NULL unless flagged as 'Nullable'
- Constraint names are only applicable if defining a name i.e. as a separate 'field' in the table vs an in line 'unique' keyword added to the field definition
- Your script should also generate a user of this DB... named 'prs_user'
- This script should be stored along with your other sql scripts, in a sub-folder named 'prs'

Data

- You'll want some data to start with
- Below are some sample data you can add
- NOTE: Be sure you insert this data with foreign keys in mind... if table A has data that table B refers to, as in a foreign key from table B back to table A... then table A's inserts must be defined before table B's inserts
- User

ID	UserName	Password	FirstName	LastName	PhoneNumber	Email	IsReviewer	IsAdmin
1	SYSTEM	xxxxx	System	System	XXX-XXX-XXXX	system@test.com	0	0

- That's just one user. You should also add a user for yourself, so 2 total rows in the User table

- Vendor

ID	Code	Name	Address	City	State	Zip	PhoneNumber	Email
1	BB-1001	Best Buy	100 Best Buy Street	Louisville	KY	40207	502-111-9099	geekssquad@bestbuy.com
2	AP-1001	Apple Inc	1 Infinite Loop	Cupertino	CA	95014	800-123-4567	genius@apple.com
3	AM-1001	Amazon	410 Terry Ave. North	Seattle	WA	98109	206-266-1000	amazon@amazon.com
4	ST-1001	Staples	9550 Mason Montgomery Rd	Mason	OH	45040	513-754-0235	support@orders.staples.com
5	MC-1001	Micro Center	11755 Mosteller Rd	Sharonville	OH	45241	513-782-8500	support@microcenter.com

- Product

	ID	VendorID	PartNumber	Name	Price	Unit	PhotoPath
▶	1	1	ME280LL	iPad Mini 2	296.99	NULL	NULL
	2	2	ME280LL	iPad Mini 2	299.99	NULL	NULL
	3	3	105810	Hammermill Paper, Premium Multi-Purpose Paper...	8.99	1 ...	NULL
	4	4	122374	HammerMill® Copy Plus Copy Paper, 8 1/2" x 11...	29.99	1 ...	NULL
	5	4	784551	Logitech M325 Wireless Optical Mouse, Ambidex...	14.99	NULL	NULL
	6	4	382955	Staples Mouse Pad, Black	2.99	NULL	NULL
	7	4	2122178	AOC 24-Inch Class LED Monitor	99.99	NULL	NULL
	8	4	2460649	Laptop HP Notebook 15-AY163NR	529.99	NULL	NULL
	9	4	2256788	Laptop Dell i3552-3240BLK 15.6"	239.99	NULL	NULL
	10	4	IM12M9520	Laptop Acer Acer™ Aspire One Cloudbook 14"	224.99	NULL	NULL
	11	4	940600	Canon imageCLASS Copier (D530)	99.99	NULL	NULL
	12	5	228148	Acer Aspire ATC-780A-UR12 Desktop Computer	399.99		/images/AcerAspireDesktop.jpg
	13	5	279364	Lenovo IdeaCentre All-In-One Desktop	349.99		/images/LenovoIdeaCenter.jpg
+	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- We'll talk more about the PhotoPath field later. For now just add the data.