

Project Brief: Database Concepts

The data below is the database of a popular online store in the USA called “Shopfast”. Their database was set up by their manager who didn’t know much about database fundamentals. He would like you to help clean the database by doing the following:

- Normalize (split) the database into 4 different tables. (I have already normalized one which I called the shipping table).
- Ensure each row in each table is unique
- Ensure the table has been named
- Ensure the fields are named correctly as per naming conventions
- Indicate a primary key
- Indicate a foreign key (only when necessary, some tables don’t require a foreign key)

Shopfast Database

Order ID	Payment Descriptn	customer email	Product Name	shipping id	ORDER DATE	shipped date	shipping METHOD	Sale PRICE	CUSTOMER ID	Product ID	CUSTOMER name	Customer surname	Customer city	Product Category	PRODUCTSUB CATEGORY
1456	Credit Card	jee@gmail.com	Indigo Diva Top	12	12 July 2020	15 July 2020	air	\$20	3451	124	Jee	Dana	New York	Ladies Fashion	Tops
1457	Debit Card	dprice@msn.com	Grey Crew Neck Top	13	12 July 2020	15 July 2020	road	\$15	3121	125	David	Price	Houston	Mens Fashion	Tops
1458	Credit Card	staikos@optonline.net	Sierra Blue Jeans	14	12 July 2020	15 July 2020	road	\$25	1254	126	Sean	Taikos	Miami	Ladies Fashion	Bottoms
1459	Credit Card	psharpe@mac.com	Vio Bomber Jacket	15	12 July 2020	15 July 2020	rail	\$30	2312	127	Phillip	Sharpe	Los Angeles	Mens Fashion	Jackets/Coats
1460	Cash on Delivery	andale@yahoo.com	Blue Ivy Sneaker	16	12 July 2020	15 July 2020	road	\$28	3277	128	Andy	Ale	San Francisco	Ladies Fashion	Shoes
1461	Debit Card	magusnet@icloud.com	Indigo Diva Top	17	12 July 2020	15 July 2020	road	\$20	4522	124	Maggie	Aster	Chicago	Ladies Fashion	Tops
1462	Debit Card	hillct@verizon.net	Carson Hi-tops	18	12 July 2020	15 July 2020	road	\$31	1299	129	Carrie	Hill	Seattle	Mens Fashion	Shoes
1463	Credit Card	dunstan@att.net	Grey Crew Neck Top	19	13 July 2020	16 July 2020	road	\$15	3111	125	Dustan	Bet	Boston	Mens Fashion	Tops
1464	Credit Card	psharpe@mac.com	Stripe Red Button Shirt	20	13 July 2020	16 July 2020	rail	\$18	2312	130	Phillip	Sharpe	Los Angeles	Mens Fashion	Tops
1465	Cash on Delivery	rsmartin@hotmail.com	Indigo Diva Top	21	13 July 2020	16 July 2020	road	\$20	3772	124	Ricky	Martin	Portland	Ladies Fashion	Tops
1466	Debit Card	jee@gmail.com	Dusty Blue Mini Dress	22	13 July 2020	16 July 2020	air	\$21	3451	131	Jee	Dana	New York	Ladies Fashion	Tops

(See answer template below)

Shipping Table (I've completed this already)

- ✓ Each row in table is unique
- ✓ table has been named
- ✓ fields named corrected
- ✓ primary key added
- ✓ foreign key has been added
(if necessary)

Table Name: shipping
Primary Key: shipping_id
Foregin Key:

shipping_id	shipped_date	shipping_method
12	15 July 2020	air
13	15 July 2020	road
14	15 July 2020	road
15	15 July 2020	rail
16	15 July 2020	road
17	15 July 2020	road
18	15 July 2020	road
19	16 July 2020	road
20	16 July 2020	rail
21	16 July 2020	road
22	16 July 2020	air

Order Table

- ✓ Each row in table is unique
- ✓ table has been named
- ✓ fields named corrected
- ✓ primary key added
- ✓ foreign key has been added
(if necessary)

Table Name: order

Primary Key: order_id

Foreign Key: customer_id, product_id, shipping_id

order_id	payment_description	order_date	sale_price	customer_id	product_id	shipping_id
1456	Credit Card	12 July 2020	\$20	3451	124	12
1457	Debit Card	12 July 2020	\$15	3121	125	13
1458	Credit Card	12 July 2020	\$25	1254	126	14
1459	Credit Card	12 July 2020	\$30	2312	127	15
1460	Cash on Delivery	12 July 2020	\$28	3277	128	16
1461	Debit Card	12 July 2020	\$20	4522	124	17
1462	Debit Card	12 July 2020	\$31	1299	129	18
1463	Credit Card	13 July 2020	\$15	3111	125	19
1464	Credit Card	13 July 2020	\$18	2312	130	20
1465	Cash on Delivery	13 July 2020	\$20	3772	124	21
1466	Debit Card	13 July 2020	\$21	3451	131	22

Product Table

- ✓ Each row in table is unique
- ✓ table has been named
- ✓ fields named corrected
- ✓ primary key added
- ✓ foreign key has been added
(if necessary)

Table Name: product

Primary Key: product_id

Foreign Key:

product_id	product_name	product_category	product_subcategory
124	Indigo Diva Top	Ladies Fashion	Tops
125	Grey Crew Neck Top	Mens Fashion	Tops
126	Sierra Blue Jeans	Ladies Fashion	Bottoms
127	Vio Bomber Jacket	Mens Fashion	Jackets/Coats
128	Blue Ivy Sneaker	Ladies Fashion	Shoes
129	Carson Hi-tops	Mens Fashion	Shoes
130	Stripe Red Button Shirt	Mens Fashion	Tops
131	Dusty Blue Mini Dress	Ladies Fashion	Tops

Customer Table

- ✓ Each row in table is unique
- ✓ table has been named
- ✓ fields named corrected
- ✓ primary key added
- ✓ foreign key has been added
(if necessary)

Table Name: customer

Primary Key: customer_id

Foreign Key:

customer_id	customer_name	customer_surname	customer_city	customer_email
3451	Jee	Dana	New York	jee@gmail.com
3121	David	Price	Houston	dprice@msn.com
1254	Sean	Taikos	Miami	staikos@optonline.net
2312	Phillip	Sharpe	Los Angeles	psharpe@mac.com
3277	Andy	Ale	San Francisco	andale@yahoo.com
4522	Maggie	Aster	Chicago	magusnet@icloud.com
1299	Carrie	Hill	Seattle	hillct@verizon.net
3111	Dustan	Bet	Boston	dunstan@att.net
3772	Ricky	Martin	Portland	rsmartin@hotmail.com