







1) Update the categoryName From “Beverages” to "Drinks" in the categories table.

Data Output				Messages	Notifications
				Showing rows: 1 to 8  Page No: 1 of 1 	
	categoryID [PK] integer 	categoryName character varying (50) 	description text 		
1	2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonin...		
2	3	Confections	Desserts, candies, and sweet breads		
3	4	Dairy Products	Cheeses		
4	5	Grains & Cereals	Breads, crackers, pasta, and cereal		
5	6	Meat & Poultry	Prepared meats		
6	7	Produce	Dried fruit and bean curd		
7	8	Seafood	Seaweed and fish		
8	1	Drinks	Soft drinks, coffees, teas, beers, and ales		
Total rows: 8				Query complete 00:00:00.178	LF Ln 2, Col 1

2) Insert into shipper new record (give any values) Delete that new record from shippers table.

Data Output			Messages	Notifications
<div> </div>			Showing rows:	
	shipperid [PK] integer	companyname character varying (100)		
1	1	Speedy Express		
2	2	United Package		
3	3	Federal Shipping		
4	4	FedEx		
Total rows: 4			Query complete 00:00:00.100	

Data Output			Messages	Notifications
<div> </div>			Show	
	shipperid [PK] integer	companyname character varying (100)		
1	1	Speedy Express		
2	2	United Package		
3	3	Federal Shipping		
Total rows: 3			Query complete 00:00:00.126	

3) Update categoryID=1 to categoryID=1001. Make sure related products update their categoryID too. Display both category and products table to show the cascade.

Delete the categoryID= "3" from categories. Verify that the corresponding records are deleted automatically from products.

(HINT: Alter the foreign key on products(categoryID) to add ON UPDATE CASCADE, ON DELETE CASCADE, add ON DELETE CASCADE for order_details(productid))

CATEGORIES TABLE AFTER “ON UPDATE CASCADE”

Data Output Messages Notifications			
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	categoryID [PK] integer	categoryName character varying (50)	description text
1	2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonin...
2	3	Confections	Desserts, candies, and sweet breads
3	4	Dairy Products	Cheeses
4	5	Grains & Cereals	Breads, crackers, pasta, and cereal
5	6	Meat & Poultry	Prepared meats
6	7	Produce	Dried fruit and bean curd
7	8	Seafood	Seaweed and fish
8	1001	Drinks	Soft drinks, coffees, teas, beers, and ales

Total rows: 8Query complete 00:00:00.111

PRODUCTS TABLE AFTER ”ON UPDATE CASCADE”

Data Output Messages Notifications							
Showing rows: 1 to 77							
	productid [PK] integer	productname character varying (100)	quantityunit character varying (50)	unitprice numeric (10,2)	discontinued boolean	categoryid integer	
63	65	Louisiana Fiery Hot Pepper Sauce	32 - 8 oz bottles	23.16	false	2	
64	66	Louisiana Hot Spiced Okra	24 - 8 oz jars	18.70	false	2	
65	77	Original Frankfurter GrYMne SoY e	12 boxes	14.30	false	2	
66	1	Chai	10 boxes x 20 bags	18.00	false	1001	
67	2	Chang	24 - 12 oz bottles	19.00	false	1001	
68	24	Guarana Fantastica	12 - 355 ml cans	4.50	true	1001	
69	34	Sasquatch Ale	24 - 12 oz bottles	14.00	false	1001	
70	35	Steeleye Stout	24 - 12 oz bottles	18.00	false	1001	
71	38	CYDte de Blaye	12 - 75 cl bottles	263.50	false	1001	
72	39	Chartreuse verte	750 cc per bottle	18.00	false	1001	
73	43	Ipoh Coffee	16 - 500 g tins	46.00	false	1001	
74	67	Laughing Lumberjack Lager	24 - 12 oz bottles	14.00	false	1001	
75	70	Outback Lager	24 - 355 ml bottles	15.00	false	1001	
76	75	RhYKnbrYEu Klosterbier	24 - 0.5 l bottles	7.75	false	1001	
77	76	LakkalikYXri	500 ml	18.00	false	1001	
Total rows: 77 Query complete 00:00:00.146							

4) Delete the customer = "VINET" from customers. Corresponding customers in orders table should be set to null (HINT: Alter the foreign key on orders(customerID) to use ON DELETE SET NULL)

Data Output Messages Notifications								
Showing rows: 1 to 831								
	orderid [PK] integer	customerID character varying (10)	employeeID integer	orderDate date	requiredDate date	shippedDate date	shipperID integer	freight numeric (10,2)
817	11069	TORTU	1	2015-05-04	2015-06-01	2015-05-06	2	15.67
818	11070	LEHMS	2	2015-05-05	2015-06-02	[null]	1	136.00
819	11071	LILAS	1	2015-05-05	2015-06-02	[null]	1	0.93
820	11072	ERNSH	4	2015-05-05	2015-06-02	[null]	2	258.64
821	11073	PERIC	2	2015-05-05	2015-06-02	[null]	2	24.95
822	11074	SIMOB	7	2015-05-06	2015-06-03	[null]	2	18.44
823	11075	RICSU	8	2015-05-06	2015-06-03	[null]	2	6.19
824	11076	BONAP	4	2015-05-06	2015-06-03	[null]	2	38.28
825	11077	RATTC	1	2015-05-06	2015-06-03	[null]	2	8.53
826	10248	[null]	5	2013-07-04	2013-08-01	2013-07-16	3	32.38
827	10274	[null]	6	2013-08-06	2013-09-03	2013-08-16	1	6.01
828	10295	[null]	2	2013-09-02	2013-09-30	2013-09-10	2	1.15
829	10737	[null]	2	2014-11-11	2014-12-09	2014-11-18	2	7.79
830	10739	[null]	3	2014-11-12	2014-12-10	2014-11-17	3	11.08
831	11078	[null]	5	2025-04-23	2025-04-30	2025-04-25	2	[null]

5) Insert the following data to Products using UPSERT:

product_id = 100, product_name = Wheat bread, quantityperunit=1,unitprice = 13, discontinued = 0, categoryID=5

product_id = 101, product_name = White bread, quantityperunit=5 boxes,unitprice = 13, discontinued = 0, categoryID=5

product_id = 100, product_name = Wheat bread, quantityperunit=10 boxes,unitprice = 13, discontinued = 0, categoryID=5

(this should update the quantityperunit for product_id = 100)

Data Output Messages Notifications							
Showing rows: 1							
	productid [PK] integer	productname character varying (100)	quantityperunit character varying (50)	unitprice numeric (10,2)	discontinued boolean	categoryid integer	
52	77	Original Frankfurter GrYMne SoY e	12 boxes	14.30	false	2	
53	1	Chai	10 boxes x 20 bags	18.00	false	1001	
54	2	Chang	24 - 12 oz bottles	19.00	false	1001	
55	24	Guarana Fantastica	12 - 355 ml cans	4.50	true	1001	
56	34	Sasquatch Ale	24 - 12 oz bottles	14.00	false	1001	
57	35	Steeleye Stout	24 - 12 oz bottles	18.00	false	1001	
58	38	CYДte de Blaye	12 - 75 cl bottles	263.50	false	1001	
59	39	Chartreuse verte	750 cc per bottle	18.00	false	1001	
60	43	Ipoh Coffee	16 - 500 g tins	46.00	false	1001	
61	67	Laughing Lumberjack Lager	24 - 12 oz bottles	14.00	false	1001	
62	70	Outback Lager	24 - 355 ml bottles	15.00	false	1001	
63	75	RhYXnbrYEu Klosterbier	24 - 0.5 l bottles	7.75	false	1001	
64	76	LakkalikYXri	500 ml	18.00	false	1001	
65	101	White bread	5 boxes	13.00	false	5	
66	100	Wheat bread	10 boxes	13.00	false	5	

6)

Data Output Messages Notifications

MERGE 4

Query returned successfully in 84 msec.

Total rows: 7 Query complete 00:00:00.084

Data Output

Messages

Notifications

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Show

	productid [PK] integer	productname character varying (100)	quantityperunit character varying (50)	unitprice numeric (10,2)	discontinued boolean	categoryid integer
53	101	White bread	5 boxes	19.99	false	5
54	102	Midnight Mango Fizz	24-12 oz bottles	19.00	false	1
55	103	Savory Fire Sauce	12-550 ml bottles	10.00	false	2
56	1	Chai	10 boxes x 20 bags	18.00	false	1
57	2	Chang	24 - 12 oz bottles	19.00	false	1
58	24	Guarana Fantastica	12 - 355 ml cans	4.50	true	1
59	34	Sasquatch Ale	24 - 12 oz bottles	14.00	false	1
60	35	Steeleye Stout	24 - 12 oz bottles	18.00	false	1
61	38	СУДте de Blaye	12 - 75 cl bottles	263.50	false	1
62	39	Chartreuse verte	750 cc per bottle	18.00	false	1
63	43	Ipoh Coffee	16 - 500 g tins	46.00	false	1
64	67	Laughing Lumberjack Lager	24 - 12 oz bottles	14.00	false	1
65	70	Outback Lager	24 - 355 ml bottles	15.00	false	1
66	75	RhYЖnbrYЄu Klosterbier	24 - 0.5 l bottles	7.75	false	1
67	76	LakkalikYЖri	500 ml	18.00	false	1

Total rows: 67

Query complete 00:00:00.105

7) List all orders with employee full names. (Inner join)

Data Output Messages Notifications						
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	productid [PK] integer	productname character varying (100)	quantityperunit character varying (50)	unitprice numeric (10,2)	discontinued boolean	categoryid integer
53	101	White bread	5 boxes	19.99	false	5
54	102	Midnight Mango Fizz	24-12 oz bottles	19.00	false	1
55	103	Savory Fire Sauce	12-550 ml bottles	10.00	false	2
56	1	Chai	10 boxes x 20 bags	18.00	false	1
57	2	Chang	24 - 12 oz bottles	19.00	false	1
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59	34	Sasquatch Ale	24 - 12 oz bottles	14.00	false	1
60	35	Steeleye Stout	24 - 12 oz bottles	18.00	false	1
61	38	СУДте de Blaye	12 - 75 cl bottles	263.50	false	1
62	39	Chartreuse verte	750 cc per bottle	18.00	false	1
63	43	Ipoh Coffee	16 - 500 g tins	46.00	false	1
64	67	Laughing Lumberjack Lager	24 - 12 oz bottles	14.00	false	1
65	70	Outback Lager	24 - 355 ml bottles	15.00	false	1
66	75	RhYЖnbrYEu Klosterbier	24 - 0.5 l bottles	7.75	false	1
67	76	LakkalikYЖri	500 ml	18.00	false	1
Total rows: 67		Query complete 00:00:00.105				