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## Televisions

- Samsung
- Sony
- LG

## Sound Systems

- Sony
- JBL
- Bose


## Welcome to Best Deal



Search Product:

- Samsung Pet Tracker
- Sony HT 350W Channel Soundbar System
- Samsung 65" 4K UHD Smart TV
- Samsung Gear Virtual Reality Headset
- Sony 65" OLED 4K UHD Smart TV
- Samsung Galaxy S20 128GB Aura Blue
- Samsung - Adaptive fast Charger
- Samsung Notebook 9 pro 15 inch
- Sony 55" 4K UHD Smart Android TV
- Sony Complete Speaker System
- Sony Wireless Headphones with Noise Cancelation

After clicking on the second Option



# Best Deal

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## Televisions

- Samsung
- Sony
- LG

## Sound Systems


- Sony
- JBL
- Bose

## Smart Phones

- Apple

### Sony HT 350W Channel Soundbar System

**\$298.99**



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## Transactions Table in MySQL

1 • `SELECT * FROM bestdealsql.transactions;`

Result Grid

logId	customerName	customerAge	customerOcc	creditCardNo	orderId	orderDate	expDelDate	actDelDate	productId	productName	category	manuf
c3	Ketan	26	Sales	787546439865	20	2020-11-08	2020-11-22	2020-11-20	hpSpectre	HP sprctre	laptops	HP
c3	Ketan	26	Sales	787546439865	20	2020-11-08	2020-11-22	2020-11-20	LG55Sinch	LG 55" 4K UHD Smart TV	tv	LG
c3	Ketan	26	Sales	787546439865	20	2020-11-08	2020-11-22	2020-11-23	nokia71	Nokia 7.1 Android 9.0 Pie 64GB	phones	Nokia
c3	Ketan	26	Sales	787546439865	20	2020-11-08	2020-11-22	2020-11-22	nokiaCover	Nokia 7.1 Protector Case	accessories	OnePlus
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-21	appleAirPods	Apple AirPods	accessories	Apple
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-20	echoPlus	Amazon Echo Plus	voiceAssistants	Amazon
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-20	iphone11pro	iPhone 11 pro 64GB Space Gray	phones	Apple
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-23	samsungVR	Samsung Gear Virtual Reality Headset	wearableTechs	Samsung
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-21	sony55Sinch	Sony 55" 4K UHD Smart Android TV	tv	Sony
c3	Shubham	22	Electrical Engineer	234029300222	21	2020-11-08	2020-11-22	2020-11-24	thinkPad	Lenovo ThinkPad	laptops	Lenovo
c1	Soham Sures...	24	Software Engineer	908965289277	22	2020-11-08	2020-11-22	2020-11-20	appleWatch	Apple Watch	wearableTechs	Apple
c1	Soham Sures...	24	Software Engineer	9087654321	23	2020-11-08	2020-11-22	2020-11-23	jblSound300W	JBL 2.1 Channel 300W Soundbar System	soundSystems	JBL
c4	Yash Raj FNU	23	Data Scientist	4743437578855	24	2020-11-08	2020-11-22	2020-11-20	echo3rdgen	Amazon Echo 3rd Generation	voiceAssistants	Amazon
c4	Yash Raj FNU	23	Data Scientist	4743437578855	24	2020-11-08	2020-11-22	2020-11-22	galaxyS20	Samsung Galaxy S20 128GB Aura Blue	phones	Samsung
c4	Yash Raj FNU	23	Data Scientist	4743437578855	24	2020-11-08	2020-11-22	2020-11-22	oneplus7pro	OnePlus 7 Pro 256GB	phones	OnePlus
c4	Yash Raj FNU	23	Data Scientist	4743437578855	24	2020-11-08	2020-11-22	2020-11-23	onePlusDash	One Plus Dash Charger	accessories	OnePlus
c4	Yash Raj FNU	23	Data Scientist	4743437578855	24	2020-11-08	2020-11-22	2020-11-22	s20backcover	Back cover for Samsung Galaxy S20	accessories	Samsung
c5	Akshay Kulkarni	25	UI Designer	6534759754358	25	2020-11-08	2020-11-22	2020-11-22	appleAirPods	Apple AirPods	accessories	Apple
c5	Akshay Kulkarni	25	UI Designer	6534759754358	25	2020-11-08	2020-11-22	2020-11-22	appleWatch	Apple Watch	wearableTechs	Apple

transactions 2 x

Output

Action Output

#	Time	Action	Message
20	14:31:11	SELECT * FROM bestdealsql.customerorders LIMIT 0, 1000	86 row(s) returned
21	15:50:24	SELECT * FROM bestdealsql.transactions LIMIT 0, 1000	34 row(s) returned

1 • `SELECT * FROM bestdealsql.transactions;`

Result Grid

actDelDate	productId	productName	category	manufacturer	reviewRating	delTrackId	delType	delZipCode	transactionStatus	orderReturned	orderDelOnTime
2020-11-20	hpSpectre	HP sprctre	laptops	HP	5	20hpSpectre	del	600601	1	0	1
2020-11-20	LG55Sinch	LG 55" 4K UHD Smart TV	tv	LG	4	20LG55Sinch	del	600601	1	0	1
2020-11-23	nokia71	Nokia 7.1 Android 9.0 Pie 64GB	phones	Nokia	5	20nokia71	del	600601	1	0	0
2020-11-22	nokiaCover	Nokia 7.1 Protector Case	accessories	OnePlus	1	20nokiaCover	del	600601	1	1	0
2020-11-21	appleAirPods	Apple AirPods	accessories	Apple	5	21appleAirPods	del	600800	0	0	1
2020-11-20	echoPlus	Amazon Echo Plus	voiceAssistants	Amazon	2	21echoPlus	del	600800	0	1	1
2020-11-20	iphone11pro	iPhone 11 pro 64GB Space Gray	phones	Apple	1	21iphone11pro	del	600800	0	1	1
2020-11-23	samsungVR	Samsung Gear Virtual Reality Headset	wearableTechs	Samsung	2	21samsungVR	del	600800	0	1	0
2020-11-21	sony55Sinch	Sony 55" 4K UHD Smart Android TV	tv	Sony	4	21sony55Sinch	del	600800	0	0	1
2020-11-24	thinkPad	Lenovo ThinkPad	laptops	Lenovo	4	21thinkPad	del	600800	0	0	0
2020-11-20	appleWatch	Apple Watch	wearableTechs	Apple	2	22appleWatch	del	400605	0	1	1
2020-11-23	jblSound300W	JBL 2.1 Channel 300W Soundbar System	soundSystems	JBL	2	23jblSound300W	del	400605	1	0	0
2020-11-20	echo3rdgen	Amazon Echo 3rd Generation	voiceAssistants	Amazon	2	24echo3rdgen	del	8907654	1	1	1
2020-11-22	galaxyS20	Samsung Galaxy S20 128GB Aura Blue	phones	Samsung	1	24galaxyS20	del	8907654	1	1	1
2020-11-22	oneplus7pro	OnePlus 7 Pro 256GB	phones	OnePlus	3	24oneplus7pro	del	8907654	1	0	1
2020-11-23	onePlusDash	One Plus Dash Charger	accessories	OnePlus	3	24onePlusDash	del	8907654	1	0	0
2020-11-22	s20backcover	Back cover for Samsung Galaxy S20	accessories	Samsung	2	24s20backcover	del	8907654	1	1	0
2020-11-22	appleAirPods	Apple AirPods	accessories	Apple	5	25appleAirPods	del	60616	1	0	1
2020-11-22	appleWatch	Apple Watch	wearableTechs	Apple	2	25appleWatch	del	60616	1	1	0

transactions 2 x

Output

Action Output

#	Time	Action	Message
20	14:31:11	SELECT * FROM bestdealsql.customerorders LIMIT 0, 1000	86 row(s) returned
21	15:50:24	SELECT * FROM bestdealsql.transactions LIMIT 0, 1000	34 row(s) returned

## Python Script to generate .csv file from Transactions table

```
In [1]: import contextlib
import csv
import datetime
import os
import pymysql

TRANSACTION_SQL_QUERY = """
SELECT * FROM transactions;
"""

connection = pymysql.connect(host='localhost',
                             user='root',
                             password='3306',
                             db='bestdealsql')

with contextlib.closing(connection):
    with connection.cursor() as cursor:
        cursor.execute(TRANSACTION_SQL_QUERY)
        transactions_result = cursor.fetchall()

transactions_output_file = 'C://MS//Fall2020//EWA//HW4Backups//transactions.csv'
with open(transactions_output_file, 'w', newline='') as csvfile:
    csv_writer = csv.writer(csvfile, lineterminator='\n')
    csv_writer.writerow(['loginID', 'Customer_Name', 'Customer_Age', 'Customer_Occupation', 'Credit_Card_Number', 'Order_ID', 'Order_Status', 'Delivery_Type', 'Delivery_Status', 'Transaction_Status', 'Order_Returned', 'Order_Delivered_on_Time'])
    csv_writer.writerows(transactions_result)
```

## .csv file Generated

#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	loginID	Customer	Customer	Credit_Card	Order_ID	Order_Date	Expected_Delivery_Date	Actual_Delivery_Date	Product_ID	Product_Name	Category	Manufacturer	Review_Rating	Delivery_Type	Delivery_Status	Transaction_Status	Order_Returned	Order_Delivered_on_Time		
2	c1	Soham Sui	24	Software I	1.11E+15	18	11/8/2020	11/22/2020	11/20/2020	appleAirP	Apple AirPods	accessories	Apple	1.18appleAi	del	400605	1	1	1	
3	c1	Soham Sui	24	Software I	1.11E+15	18	11/8/2020	11/22/2020	11/22/2020	iphone11i	iPhone 11 pro 64GB Space	phones	Apple	2.18iphone	del	400605	0	1	1	
4	c1	Soham Sui	24	Software I	1.11E+15	18	11/8/2020	11/22/2020	11/22/2020	macBookM	MacBook Pro 13 inch	laptops	Apple	1.18macBoc	del	400605	1	1	1	
5	c1	Soham Sui	24	Software I	1.11E+15	18	11/8/2020	11/22/2020	11/20/2020	samsungS	Samsung 65" 4K UHD Smart TVs	TVs	Samsung	4.18samsu	del	400605	0	0	1	
6	c1	Soham Sui	24	Software I	1.11E+15	18	11/8/2020	11/22/2020	11/23/2020	sonyHTS	Sony HT 350W Channel Soui soundSystems	sony	Sony	4.18sonyHT	del	400605	0	0	1	
7	c2	Nishant Pi	25	Singer	7.78E+11	19	11/8/2020	11/22/2020	11/20/2020	googlefor	Google Home Mini	voiceAssistants	Google	4.19google	del	400618	1	0	1	
8	c2	Nishant Pi	25	Singer	7.78E+11	19	11/8/2020	11/22/2020	11/24/2020	jblSound3	JBL 2.1 Channel 300W Soun soundSystems	JBL	JBL	2.19jblSoun	del	400618	1	0	1	
9	c2	Nishant Pi	25	Singer	7.78E+11	19	11/8/2020	11/22/2020	11/21/2020	motorG	Motorola Moto G 64GB	phones	Motorola	5.19motoG	del	400618	1	0	1	
10	c2	Nishant Pi	25	Singer	7.78E+11	19	11/8/2020	11/22/2020	11/22/2020	motorG	Moto G Power Case	accessories	Motorola	3.19motoG	del	400618	1	0	1	
11	c2	Nishant Pi	25	Singer	7.78E+11	19	11/8/2020	11/22/2020	11/23/2020	sonyS5inc	Sony 55" 4K UHD Smart And tvs	sony	Sony	1.19sonyS5	del	400618	1	0	1	
12	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/22/2020	boselLifet	Bose Lifestyle 650 Home Ent soundSystems	Bose	Bose	1.20boselLif	del	600601	1	0	1	
13	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/20/2020	fitbitCh	Fitbit Charge 3	wearableTechs	Fitbit	4.20fitbitCh	del	600601	1	0	1	
14	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/22/2020	hpSpectre	HP sprctre	laptops	HP	5.20hpSpect	del	600601	1	0	1	
15	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/20/2020	LG55inch	LG 55" 4K UHD Smart TV	TVs	LG	4.20LG55inc	del	600601	1	0	1	
16	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/23/2020	nokia71	Nokia 7.1 Android 9.0 Pie 6i-phones	phones	Nokia	5.20nokia7	del	600601	1	0	1	
17	c3	Ketan	26	Sales	7.88E+11	20	11/8/2020	11/22/2020	11/22/2020	nokiaCov	Nokia 7.1 Protector Case	accessories	OnePlus	1.20nokiaC	del	600601	1	0	1	
18	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/21/2020	appleAirP	Apple AirPods	accessories	Apple	5.21appleAi	del	600800	0	1	1	
19	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/20/2020	echoPlus	Amazon Echo Plus	voiceAssistants	Amazon	2.21echoPl	del	600800	0	1	1	
20	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/20/2020	iphone11i	iPhone 11 pro 64GB Space	phones	Apple	1.21iphone	del	600800	0	1	1	
21	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/23/2020	samsungS	Samsung Gear Virtual Reali wearableTechs	Samsung	Samsung	2.21samsu	del	600800	0	1	1	
22	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/21/2020	sonyS5inc	Sony 55" 4K UHD Smart And tvs	sony	Sony	4.21sonyS5	del	600800	0	1	1	
23	c3	Shubham	22	Electrical	2.34E+11	21	11/8/2020	11/22/2020	11/24/2020	thinkPad	Lenovo ThinkPad	laptops	Lenovo	4.21thinkPa	del	600800	0	1	1	
24	c1	Soham Sui	24	Software I	9.09E+11	22	11/8/2020	11/22/2020	11/20/2020	appleWat	Apple Watch	wearableTechs	Apple	2.22appleW	del	400605	0	1	1	
25	c1	Soham Sui	24	Software I	9.1E+09	23	11/8/2020	11/22/2020	11/23/2020	jblSound3	JBL 2.1 Channel 300W Soun soundSystems	JBL	JBL	2.23jblSoun	del	400605	1	0	1	
26	c4	Yash Raj F	23	Data Scier	4.74E+12	24	11/8/2020	11/22/2020	11/20/2020	echo3rdgt	Amazon Echo 3rd Generatio voiceAssistants	Amazon	Amazon	2.24echo3rd	del	8907654	1	1	1	
27	c4	Yash Raj F	23	Data Scier	4.74E+12	24	11/8/2020	11/22/2020	11/22/2020	galaxyS20	Samsung Galaxy S20 128GB phones	phones	Samsung	1.24galayS	del	8907654	1	1	1	
28	c4	Yash Raj F	23	Data Scier	4.74E+12	24	11/8/2020	11/22/2020	11/22/2020	onePlus7	OnePlus 7 Pro 256GB	phones	OnePlus	3.24onePlu	del	8907654	1	0	1	
29	c4	Yash Raj F	23	Data Scier	4.74E+12	24	11/8/2020	11/22/2020	11/23/2020	onePlus7	One Plus Dash Charger	accessories	OnePlus	3.24onePlu	del	8907654	1	0	1	
30	c4	Yash Raj F	23	Data Scier	4.74E+12	24	11/8/2020	11/22/2020	11/22/2020	s20Backc	Back cover for Samsung Gal accessories	Samsung	Samsung	2.24s20Bac	del	8907654	1	0	1	
31	c5	Akshay Ku	25	UI Design	6.53E+12	25	11/8/2020	11/22/2020	11/22/2020	appleAirP	Apple AirPods	accessories	Apple	5.25appleAi	del	60616	1	1	0	
32	c5	Akshay Ku	25	UI Design	6.53E+12	25	11/8/2020	11/22/2020	11/22/2020	appleWat	Apple Watch	wearableTechs	Apple	2.25appleW	del	60616	1	1	0	
33	c5	Akshay Ku	25	UI Design	6.53E+12	25	11/8/2020	11/22/2020	11/22/2020	iphone11i	iPhone 11 pro 64GB Space	phones	Apple	1.25iphone	del	60616	1	1	0	
34	c5	Akshay Ku	25	UI Design	6.53E+12	25	11/8/2020	11/22/2020	11/22/2020	macBookM	MacBook Pro 13 inch	laptops	Apple	5.25macBoc	del	60616	1	0	1	

## Cypher Script to load csv to Neo4j

```
LOAD CSV WITH HEADERS FROM
'file:///transactions.csv' AS line
WITH line
MERGE (customer:Customer {id:line.loginID,name: line.Customer_Name,age:line.Customer_Age,occupation:line.Customer_Occupation})
MERGE (product:Product {id:line.Product_ID,name: line.Product_Name})
MERGE (manuFacter:Manufacturer {name:line.Manufacturer})
MERGE (category:Category {name:line.Category})
MERGE (order:Order {id:line.Order_ID, order_date:line.Order_Date, exp_del_date: line.Expected_Delivery_Date})
CREATE (delivery:Delivery {id:line.Delivery_Tracking_ID, type: line.Delivery_Type, date: line.Actual_Delivery_Date, returned:line.Order_Returned, on_time:line.Order_Delivered_on_Time})
MERGE (zip:ZipCode {id:line.Delivery_Zip_Code})

MERGE (customer)-[:PLACED]->(order)
CREATE (order)-[:FOR]->(product)
MERGE (product)-[:BELONGS_TO]->(category)
MERGE (product)-[:MANUFACTURED_BY]->(manuFacter)
CREATE (delivery)-[:FOR]->(product)
CREATE (delivery)-[:FOR]->(order)
CREATE (customer)-[:D_TO]->(delivery)
CREATE (delivery)-[:D_TO]->(zip)
CREATE (delivery)-[:T_TO]->(customer)

SET d.rating = TOINTEGER(line.Review_Rating)
SET d.returned = CASE line.Order_Returned WHEN "1" THEN true ELSE false END
SET d.on_time = CASE line.Order_Delivered_on_Time WHEN "1" THEN true ELSE false END
SET d.disputed = CASE line.Transaction_Status WHEN "0" THEN true ELSE false END
;
```

Graph generated

