```
-- 1
-- Sort Products based on Quantity
select *
from sql_Inventory.Product
order by Quantity;
```

Here the products are being sorted by quantity in ascending order. The table we get on running the query is given below.

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
135	12	Sobe - Cranberry Grapefruit	posuere felis sed lacus morbi sem mauris laoreet	5574	1
198	8	Ham - Cooked Bayonne Tinned	at ipsum ac tellus semper interdum mauris ullam	641	1
187	17	Rum - Light, Captain Morgan	semper sapien a libero nam dui proin leo odio po	5760	1
105	15	Initation Crab Meat	odio odio elementum eu interdum eu tincidunt in	9367	1
284	18	Couscous	mi in porttitor pede justo eu massa donec dapib	3706	1
234	20	Flour Pastry Super Fine	mattis odio donec vitae nisi nam ultrices libero n	8233	1
236	12	Rice - Sushi	orci pede venenatis non sodales sed tincidunt e	4824	1

```
select *
from sql_Inventory.Product
where Category_ID = 15
having price<5000
union
select *
from sql_Inventory.Product
where Category_ID = 20
having quantity>5;
```

The query here uses union to group the result of two queries. The products here are being sorted by their category IDs.

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
138	15	French Pastry - Mini Chocolate	primis in faucibus orci luctus et ultrices posuere	4234	5
243	15	Spring Roll Wrappers	nulla justo aliquam quis turpis eget elit sodales s	2194	6
103	20	Cattail Hearts	quisque arcu libero rutrum ac lobortis vel dapibu	6144	9
197	20	Sandwich Wrap	eleifend donec ut dolor morbi vel lectus in quam \dots	8431	6

```
-- Query 3 searching product based on a certain cost filter
select *
from sql_Inventory.Product
where Price between 1000 and 2000
```

Here the customer will be able to apply specific constraints to search the inventory.

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
117	19	Zucchini - Yellow	luctus et ultrices posuere cubilia curae donec ph	1598	7
119	20	Beef Striploin Aaa	turpis sed ante vivamus tortor duis mattis egest	1755	4
147	9	Kippers - Smoked	ultrices enim lorem ipsum dolor sit amet consect	1338	10
150	9	Cheese - Jack	praesent blandit nam nulla integer pede justo la	1928	3
163	8	Pork Loin Bine - In Frenched	eros vestibulum ac est lacinia nisi venenatis trist	1888	7
169	13	Beer - Blue Light	diam id ornare imperdiet sapien urna pretium nis	1218	10

```
-- Query 4 searching based for product on user input

SET @Product_Name = 'Kahlua';

SELECT *

FROM sql_Inventory.Product

WHERE Product_Name = @product_name;
```

Based on user input, the product can be searched for. This can be extended to other attributes of the product as well. The user input can vary.

Product_ID	ct_ID Category_ID Product_Name		Product_Description	Price	Quantity
115	115 6 Kahlua		ornare imperdiet sapien urna pretium nisl ut vol	261	2

```
-- updating the stock based on user input

SET @Product_ID=101;

SET @Product_Quantity=23;

UPDATE sql_Inventory.Product

SET Quantity=Quantity+@Product_Quantity

Where Product_ID=@Product_ID;
```

Here the supplier and/or admin would be able to change the stock/quantity of the products present in the inventory based on their input.

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
100	10	Arizona - Plum Green Tea	urna ut tellus nulla ut erat id mauris vulputate el	2777	3
101	19	Wine - Cotes Du Rhone	nec euismod scelerisque quam turpis adipiscing I	2116	29
103	20	Cattail Hearts	quisque arcu libero rutrum ac lobortis vel dapibu	6144	9

After

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
100	10	Arizona - Plum Green Tea	urna ut tellus nulla ut erat id mauris vulputate el	2777	3
101	19	Wine - Cotes Du Rhone	nec euismod scelerisque quam turpis adipiscing I	2116	52
103	20	Cattail Hearts	quisque arcu libero rutrum ac lobortis vel dapibu	6144	9

```
-- Select Query based on multiple filter
```

select *

from sql_Inventory.Product

where Price>1000 and Price in(select Price from sql_Inventory.Product where Product_Name like "%fillet%");

The products can be searched for based on various filters. This is an example of a nested query. String functions are used to find products with names similar to the word 'fillet'.

Product_ID	Category_ID	Product_Name	Product_Description	Price	Quantity
137	13	Salmon - Fillets	dui maecenas tristique est et tempus semper es	9188	10
194	16	Ostrich - Fan Fillet	augue luctus tincidunt nulla mollis molestie lorem	5950	7
211	20	Red Cod Fillets - 225g	in hac habitasse platea dictumst etiam faucibus	9241	4

```
-- Updating salary based on nooftrips>150;

Update sql_users.Delivery_Executive

Set Salary=Salary+(Salary*1.1)

where no_of_trips>150;
```

The salary for the delivery executives are being updated according to the number of trips they have gone on.

agent_id	agent_name	agent_DOB	a	a a	ķη	no_of_trips	Salary	
ABBP80175D	Vin Godwyn	1982-05-14	v	Мв	1	157	10239	
ADIC10824D	Daryl Rohmer	1991-11-02	di	ΜЗ	1	192	10154	
AFGA53150D	Koren Canto	1996-05-08	kı	F 6	1	152	11834	
ALPZ18833D	Jewel Craine	1988-07-23	jc	F 4	1 2	227	11686	
ASWI33144D	Kylie Blewett	1986-10-15					10308	
BNYQ62866D	Gertrude Beese	1985-02-23	gl	F 6	1	102	11284	
BOYI31951D	Wilone Petronis	2001-11-26	w	F 5	9	96	10261	
CFWF63852D	Doralyn Eccleshare	1990-07-01			1.	-	11737	
CKHQ48966D	Jody Farren	1985-05-13	jfal	M 4	1	169	11790	
CKNA17729D	Madelon Bulch	1986-09-27	m	F 9	2	267	10100	
CVNO79910D	Hubey Anthon	1991-02-01					10681	
DEBV59648D	Ephrayim Callum	2001-10-02	е	N 6	1	102	11332	
DFFC54500D	Domenic Joule	1988-04-03	dj	M 5	7	76	10630	
	ABBP80175D ADIC10824D AFGA53150D ALPZ18833D ASWI33144D BNYQ62866D BOYI31951D CFWF63852D CKHQ48966D CKNA17729D CVNO79910D DEBV59648D	ABBP80175D Vin Godwyn ADIC10824D Daryl Rohmer AFGA53150D Koren Canto ALPZ18833D Jewel Craine ASWI33144D Kylie Blewett BNYQ62866D Gertrude Beese BOYI31951D Wilone Petronis CFWF63852D Doralyn Eccleshare CKHQ48966D Jody Farren CKNA17729D Madelon Bulch CVNO79910D Hubey Anthon DEBV59648D Ephrayim Callum	ABBP80175D Vin Godwyn 1982-05-14 ADIC10824D Daryl Rohmer 1991-11-02 AFGA53150D Koren Canto 1996-05-08 ALPZ18833D Jewel Craine 1988-07-23 ASWI33144D Kylie Blewett 1986-10-15 BNYQ62866D Gertrude Beese 1985-02-23 BOYI31951D Wilone Petronis 2001-11-26 CFWF63852D Doralyn Eccleshare 1990-07-01 CKHQ48966D Jody Farren 1985-05-13 CKNA17729D Madelon Bulch 1986-09-27 CVNO79910D Hubey Anthon 1991-02-01 DEBV59648D Ephrayim Callum 2001-10-02	ABBP80175D Vin Godwyn 1982-05-14 vy ADIC10824D Daryl Rohmer 1991-11-02 d AFGA53150D Koren Canto 1996-05-08 k ALPZ18833D Jewel Craine 1988-07-23 jc ASWI33144D Kylie Blewett 1986-10-15 k BNYQ62866D Gertrude Beese 1985-02-23 g BOYI31951D Wilone Petronis 2001-11-26 w CFWF63852D Doralyn Eccleshare 1990-07-01 d CKHQ48966D Jody Farren 1985-05-13 jf CKNA17729D Madelon Bulch 1986-09-27 m CVNO79910D Hubey Anthon 1991-02-01 h DEBV59648D Ephrayim Callum 2001-10-02 e	ABBP80175D Vin Godwyn 1982-05-14 V N 8 ADIC10824D Daryl Rohmer 1991-11-02 d N 3 AFGA53150D Koren Canto 1996-05-08 k F 6 ALPZ18833D Jewel Craine 1988-07-23 jc F 4 ASWI33144D Kylie Blewett 1986-10-15 k N 4 BNYQ62866D Gertrude Beese 1985-02-23 g F 6 BOYI31951D Wilone Petronis 2001-11-26 w F 5 CFWF63852D Doralyn Eccleshare 1990-07-01 d F 1 CKHQ48966D Jody Farren 1985-05-13 jf N 4 CKNA17729D Madelon Bulch 1986-09-27 rr F 9 CVNO79910D Hubey Anthon 1991-02-01 h N 4 DEBV59648D Ephrayim Callum 2001-10-02 e N 6	ABBP80175D Vin Godwyn 1982-05-14 v M 8 1 ADIC10824D Daryl Rohmer 1991-11-02 d M 3 1 AFGA53150D Koren Canto 1996-05-08 k F 6 1 ALPZ18833D Jewel Craine 1988-07-23 jc F 4 2 ASWI33144D Kylie Blewett 1986-10-15 k M 4 6 BNYQ62866D Gertrude Beese 1985-02-23 g F 6 1 BOYI31951D Wilone Petronis 2001-11-26 w F 5 5 CFWF63852D Doralyn Eccleshare 1990-07-01 d F 1 7 CKHQ48966D Jody Farren 1985-05-13 jf M 4 1 CKNA17729D Madelon Bulch 1986-09-27 m F 9 2 CVNO79910D Hubey Anthon 1991-02-01 h M 4 2 DEBV59648D Ephrayim Callum 2001-10-02 e N 6 1	ABBP80175D Vin Godwyn 1982-05-14 v M 8 157 ADIC10824D Daryl Rohmer 1991-11-02 d M 3 192 AFGA53150D Koren Canto 1996-05-08 k F 6 152 ALPZ18833D Jewel Craine 1988-07-23 jc F 4 227 ASWI33144D Kylie Blewett 1986-10-15 k M 4 63 BNYQ62866D Gertrude Beese 1985-02-23 g F 6 102 BOYI31951D Wilone Petronis 2001-11-26 w F 5 96 CFWF63852D Doralyn Eccleshare 1990-07-01 d F 1 74 CKHQ48966D Jody Farren 1985-05-13 jf M 4 169 CKNA17729D Madelon Bulch 1986-09-27 m F 9 267 CVNO79910D Hubey Anthon 1991-02-01 h M 4 217 DEBV59648D Ephrayim Callum 2001-10-02 e N 6 102	ABBP80175D Vin Godwyn 1982-05-14 v, M 8 157 10239 ADIC10824D Daryl Rohmer 1991-11-02 d M 3 192 10154 AFGA53150D Koren Canto 1996-05-08 k F 6 152 11834 ALPZ18833D Jewel Craine 1988-07-23 jc F 4 227 11686 ASWI33144D Kylie Blewett 1986-10-15 k M 4 63 10308 BNYQ62866D Gertrude Beese 1985-02-23 g F 6 102 11284 BOYI31951D Wilone Petronis 2001-11-26 w F 5 96 10261 CFWF63852D Doralyn Eccleshare 1990-07-01 d F 1 74 11737 CKHQ48966D Jody Farren 1985-05-13 jf M 4 169 11790 CKNA17729D Madelon Bulch 1986-09-27 m F 9 267 10100 CVNO79910D Hubey Anthon 1991-02-01 h M 4 217 10681 DEBV59648D Ephrayim Callum 2001-10-02 e N 6 102 11332

After

agent_id	agent_name	agent_DOB	a	aça	ą r	no_of_trips	Salary	
▶ ABBP80175D	Vin Godwyn	1982-05-14	V	Мε	3 1	157	21502	
ADIC10824D	Daryl Rohmer	1991-11-02	di	M3	36 1	192	21323	
AFGA53150D	Koren Canto	1996-05-08	k	Fξ	6 / 1	152	24851	
ALPZ18833D	Jewel Craine	1988-07-23	jc	F4	162	227	24541	
ASWI33144D	Kylie Blewett	1986-10-15	kl	M4	1 6	63	10308	
BNYQ62866D	Gertrude Beese	1985-02-23	gl	Fξ	S(1	102	11284	
BOYI31951D	Wilone Petronis	2001-11-26	w	F 5	57 8	96	10261	
CFWF63852D	Doralyn Eccleshare	1990-07-01	d	F 1	167	74	11737	
CKHQ48966D	Jody Farren	1985-05-13	jfa	M4	1 1	169	24759	
CKNA17729D	Madelon Bulch	1986-09-27	m	F٤	92 2	267	21210	
CVNO79910D	Hubey Anthon	1991-02-01	h	M4	11 2	217	22430	
DEBV59648D	Ephrayim Callum	2001-10-02	е	NE	3(1	102	11332	
DFFC54500D	Domenic Joule	1988-04-03	dj	M 5	54 7	76	10630	

```
-- Update the assignment of drivers based on the order_value

UPDATE delivery_assignment.assigns AS a

JOIN (

SELECT payment_ID, delivery_assignment.assigns.agent_id

FROM delivery_assignment.assigns

WHERE delivery_assignment.assigns.agent_id IN (

SELECT sql_users.Delivery_Executive.agent_id

FROM sql_users.Delivery_Executive

WHERE no_of_trips > 75

)

AS b ON a.payment_ID = b.payment_ID

SET a.agent_id = (

SELECT delass.agent_id

FROM delass

WHERE tc > 7500

ORDER BY RAND()

LIMIT 1

);
```

Here we change the delivery assignment for orders with the cost more than 7500, and provide them experienced delivery executives with more than 75 trips.

After

	admin_user_id	payment_ID	agent_id	
•	mehak	0F2J9X4C7	ASWI33144D	
	mehak	0l5K7A9F4	GUQS00130D	
	mehak	0P2O8H9V8	ASWI33144D	
	mehak	0P8V2K0S8	ASWI33144D	
	mehak	0U6C1Q0W1	GIWM58062D	
	mehak	0Z2P8W6Z7	RBAT80724D	
	mehak	1C1D0H3N7	GIWM58062D	
	mehak	1H6D0T0L3	DJKQ89399D	
	mehak	1J8X2Q6A6	DQNR04622D	
	mehak	1N9C6S6K7	CFWF63852D	
	mehak	1P3C4O8C9	FJQH64151D	
	mehak	1Q7D5X3T3	RBAT80724D	
	mehak	1W4O7A7Z2	PWCB31106D	

```
set @customer_name = 'Lishe Dooley';
  set @customer_input = 1;
  set @customer_input2 = 'ldooley@hotmail.org';
  update sql_users.customer
set customer_email = case
  when @customer_input = 1 then @customer_input2
  else customer email
 end,

    address = case

  when @customer_input = 2 then @customer_input2
  else address
 end.
when @customer_input=3 then @customer_input2
  else customer_contact_number
  where customer_name = @customer_name;
```

Here the customer details are updated based on user input. The name is given and then the user inputs 1,2 or 3 along with a string. Depending on the number, their email, address and phone number would be updated respectively.

customer_id	customer_name	DOB	customer_email	customer_gender	customer_contact_number	address	pincode
LIZX36241C	Lishe Dooley	2001-08-06	ldooley7@gmail.com	Female	2778739127	9810601703	57
After							
customer_id	customer_name	DOB	customer_email	customer_gender	customer_contact_number	address	pincode
LIZX36241C	Lishe Dooley	2001-08-06	ldoolev@hotmail.org	Female	2778739127	9810601703	57

```
update sql_retailstore.bill_details

> set delivery_charge = case
when total_cost<500 then 200
when total_cost between 500 and 2000 then 100
else 25
end;</pre>
```

The delivery charges are updated on depending on the total cost of the order.

bill_id	total_cost	total_discount	delivery_date	delivery_charge
0E6B0D5B5	1921	18	2023-02-08	100
0I3I3T0F1	8204	14	2023-02-08	25
0M3Z8X8E4	3072	5	2023-02-08	25
0M7E4L3G1	2523	20	2023-02-08	25
0T0H6B4B5	9634	13	2023-02-08	25
0U7W5W6N0	1523	9	2023-02-08	100
0V5R3C1H8	9172	12	2023-02-08	25