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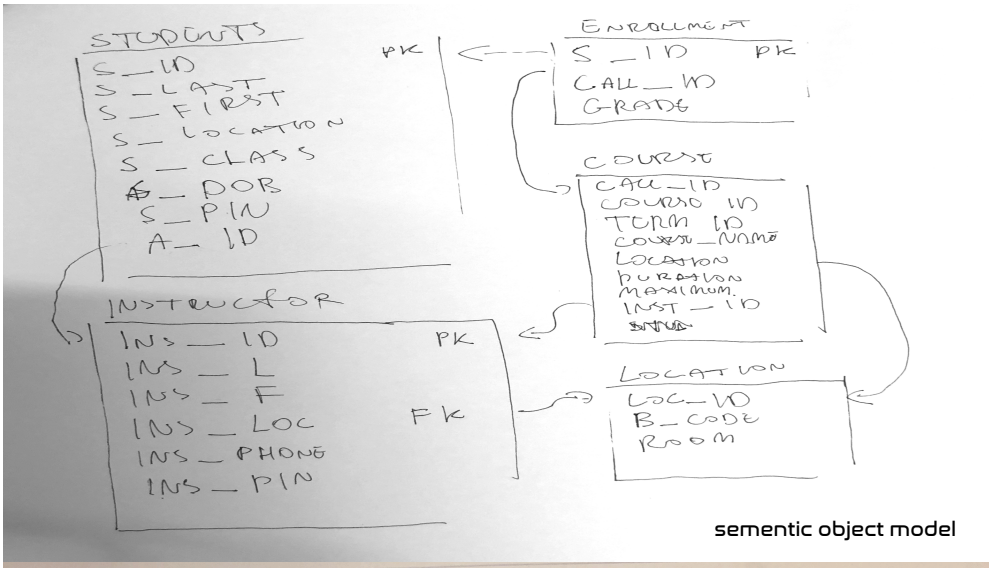
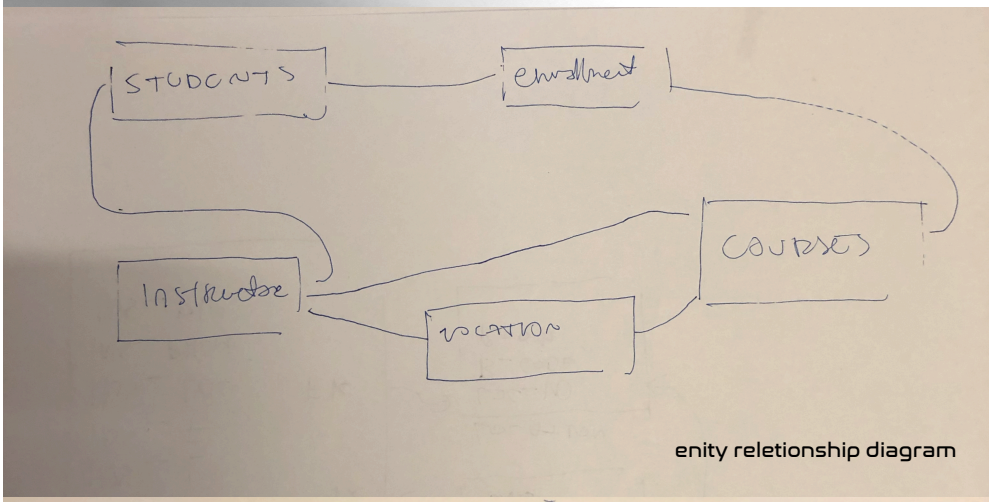
PROJECT 3

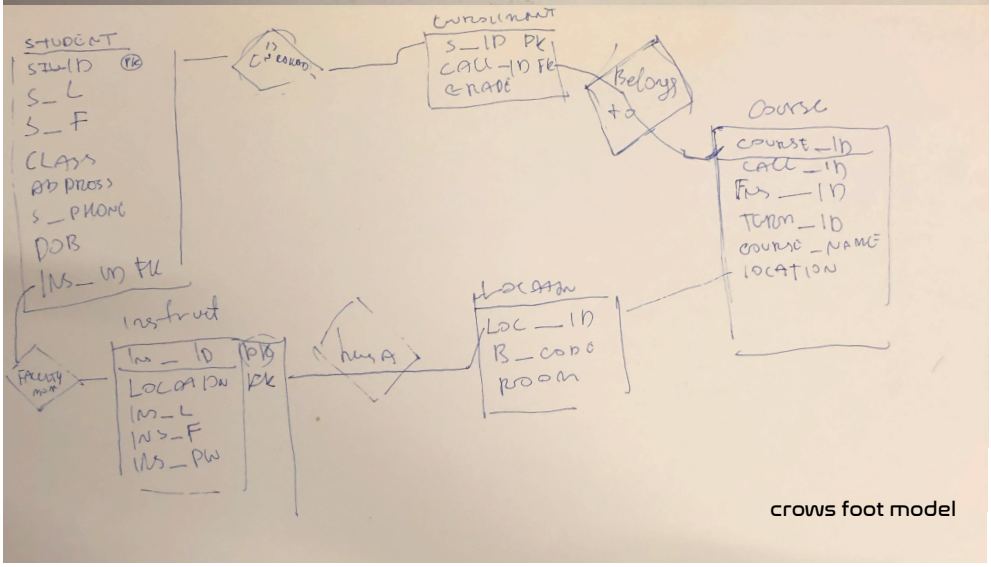
PART 1



sementic object model



enity reletionship diagram



crows foot model

PART 2

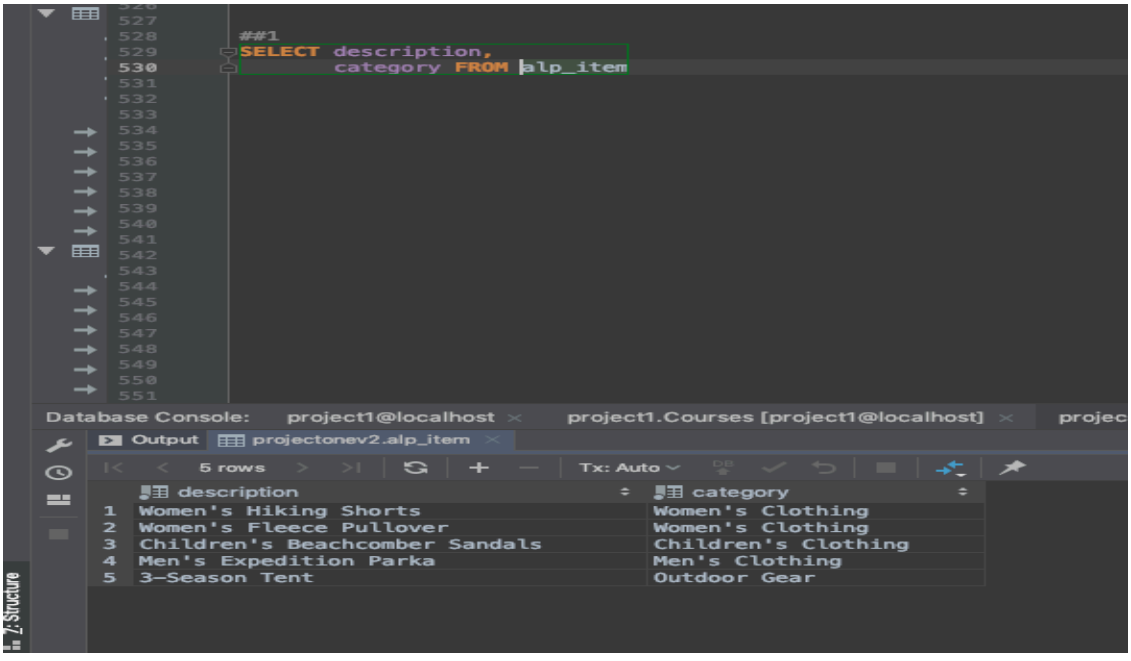
first I'm going to copy here the codes used to call the functions and after the screenshots

```
##1
SELECT description,
       category FROM alp_item;
##2
SELECT item_id,item_size,price,quantity_on_hand
FROM alp_inventory
where alp_inventory.price<100;
##3
SELECT item_id, quantity_on_hand, price
FROM alp_inventory
WHERE  alp_inventory.quantity_on_hand>30;
##4
SELECT first,last,mi,city
FROM alp_customer
Where alp_customer.city ="Silver Lake" OR
alp_customer.city="Washburn";
##5
SELECT price
FROM alp_inventory
GROUP BY price;
##6
SELECT item_id,price,quantity_on_hand
FROM alp_inventory
where alp_inventory.price>0;
##7
SELECT order_id,order_date
FROM alp_orders
WHERE order_date<'2007-11-1';
##8
SELECT item_id,price,quantity_on_hand
FROM alp_inventory
where quantity_on_hand<105 AND alp_color ='Olive' OR alp_color
='Coral';
##9
SELECT item_id,description,category
FROM alp_item
WHERE description REGEXP 'Fleece';
##10
SELECT item_id,price
FROM alp_inventory
where item_size IS NULL OR alp_color IS NULL;
##11
SELECT COUNT(order_id) AS 'order list'
FROM alp_orders
WHERE order_date<'2007-11-1';
##12
SELECT order_id,inv_id
```

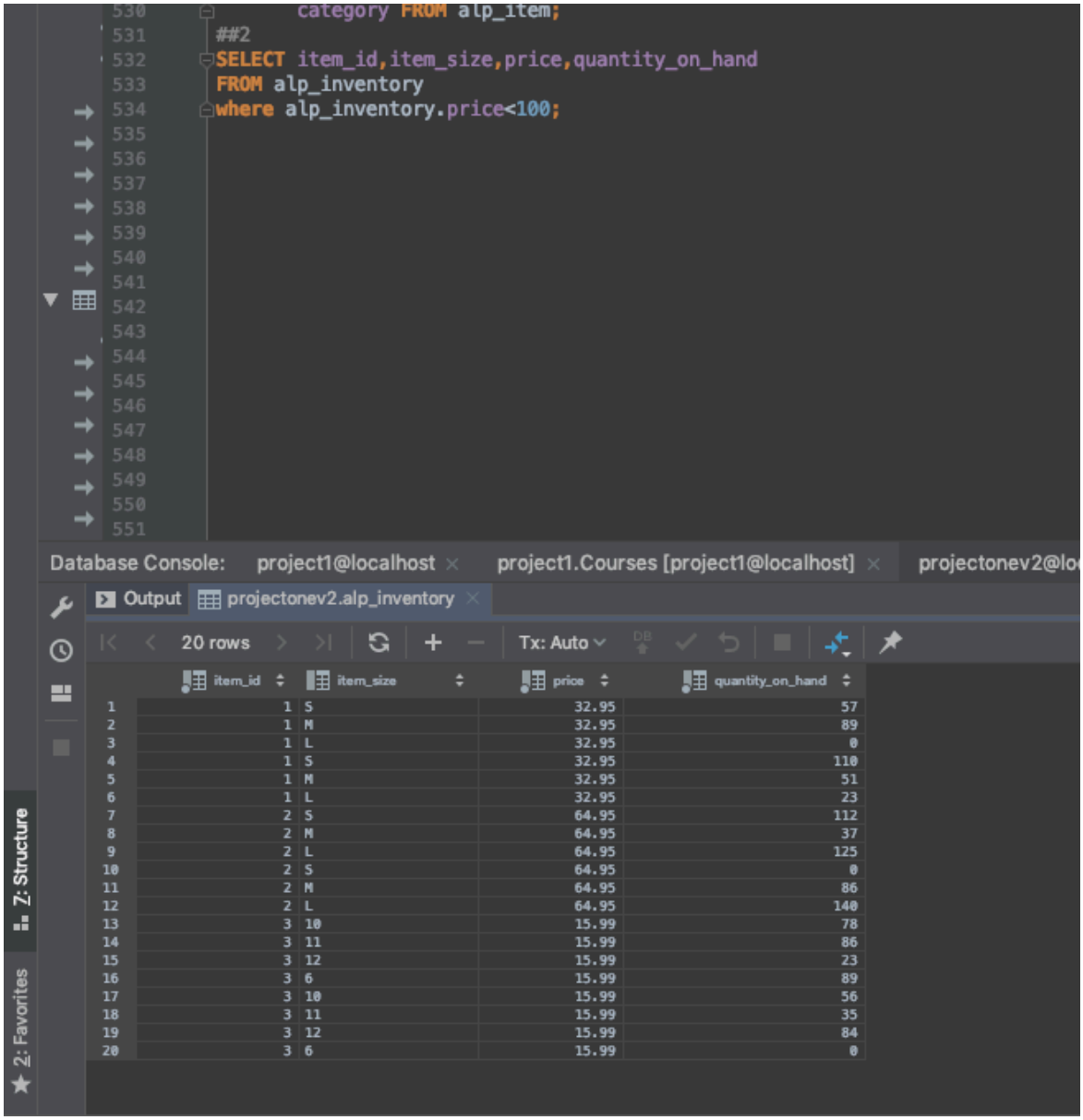
```
FROM alp_orderline
where 1;

##13
SELECT order_id,count(order_id) AS "count"
FROM alp_orderline
GROUP BY  order_id;
##14
SELECT cust_id,count(cust_id) AS "count"
FROM alp_orders
GROUP BY  cust_id HAVING COUNT(cust_id)>1;
##15
SELECT order_id,SUM(order_price*qty) as orderTotal
FROM alp_orderline
GROUP BY
order_id HAVING orderTotal>100 order by orderTotal;
##16
SELECT max(price)  AS "most_Expensive",min(price) as
"least_Expensive",avg(price) as "medium_expensive"
FROM alp_inventory;
##17
SELECT *from alp_inventory
WHERE price>(select AVG(price) from alp_inventory);
```

Screenshots

1.



2.


category FROM alp_item;
##2
SELECT item_id,item_size,price,quantity_on_hand
FROM alp_inventory
where alp_inventory.price<100;
Database Console:
project1@localhost
project1.Courses [project1@localhost]
projectonev2@lo
Output
projectonev2.alp_inventory
20 rows
Tx: Auto
item_id
item_size
price
quantity_on_hand
1 1 S 32.95 57
2 1 M 32.95 89
3 1 L 32.95 0
4 1 S 32.95 110
5 1 M 32.95 51
6 1 L 32.95 23
7 2 S 64.95 112
8 2 M 64.95 37
9 2 L 64.95 125
10 2 S 64.95 0
11 2 M 64.95 86
12 2 L 64.95 140
13 3 10 15.99 78
14 3 11 15.99 86
15 3 12 15.99 23
16 3 6 15.99 89
17 3 10 15.99 56
18 3 11 15.99 35
19 3 12 15.99 84
20 3 6 15.99 0
7: Structure
2: Favorites

3.

```
##3
SELECT item_id, quantity_on_hand, price
FROM alp_inventory
WHERE  alp_inventory.quantity_on_hand>30;
```

Database Console: project1@localhost × project1.Courses [project1@lo

Output | projectonev2.alp_inventory ×

16 rows | Tx: Auto

	item_id	quantity_on_hand	price
1	1	57	32.95
2	1	89	32.95
3	1	110	32.95
4	1	51	32.95
5	2	112	64.95
6	2	37	64.95
7	2	125	64.95
8	2	86	64.95
9	2	140	64.95
10	3	78	15.99
11	3	86	15.99
12	3	89	15.99
13	3	56	15.99
14	3	35	15.99
15	3	84	15.99
16	4	92	199.95

\

4.

```
539  ##4
540  SELECT first,last,mi,city
541  FROM alp_customer
542  Where alp_customer.city ="Silver Lake" OR alp_customer.city="Washburn";
543
544
545
546
547
548
549
550
551
```

Database Console: project1@localhost | project1.Courses [project1@localhost] | projectonev2@localhos

Output | projectonev2.alp_customer

2 rows | Tx: Auto

	first	last	mi	city
1	Mitch	Edwards	M	Washburn
2	Lee	Miller	<null>	Silver Lake

5.

```
544  SELECT price
545  FROM alp_inventory
546  GROUP BY price;
547
548
549
550
551
```

Database Console: project1@localhost

Output | projectonev2.alp_inventory

6 rows

	price
1	15.99
2	32.95
3	64.95
4	199.95
5	209.95
6	274.99

6.

```
547  ##6
548  SELECT item_id,price,quantity_on_hand
549  FROM alp_inventory
550  where alp_inventory.price>0;
551
552
553
554
555
556
557
558
559
560
561
```

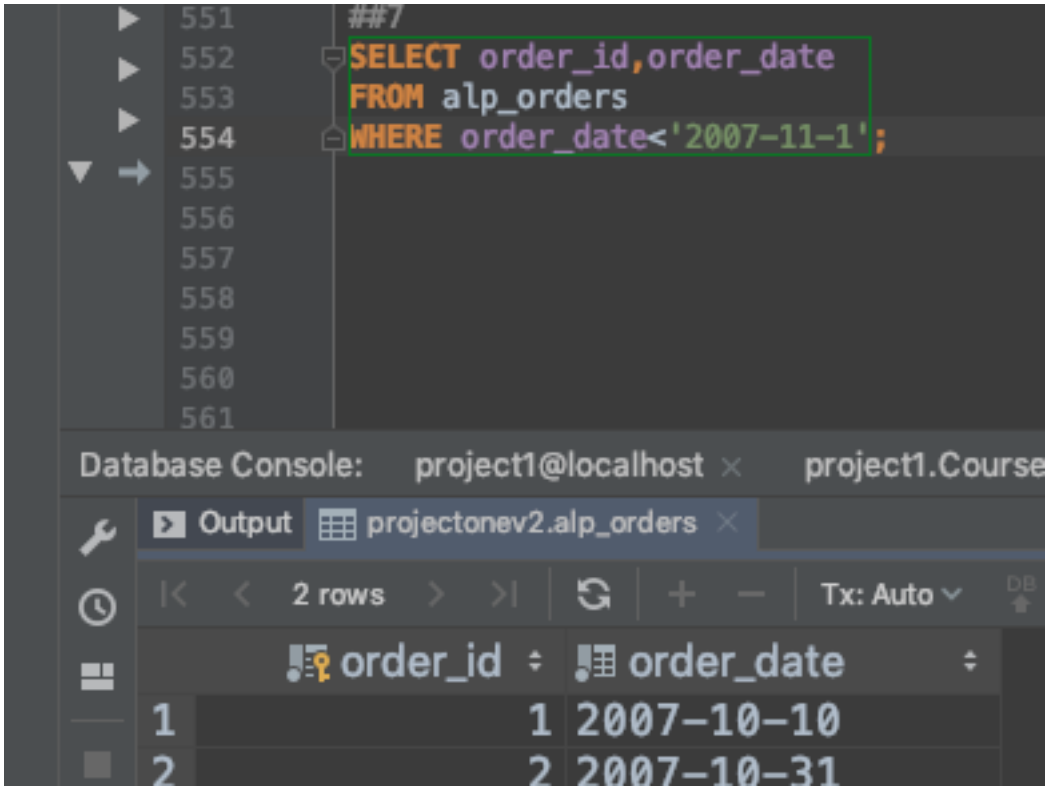
Database Console: project1@localhost × project1.Courses [project1

Output | projectonev2.alp_inventory

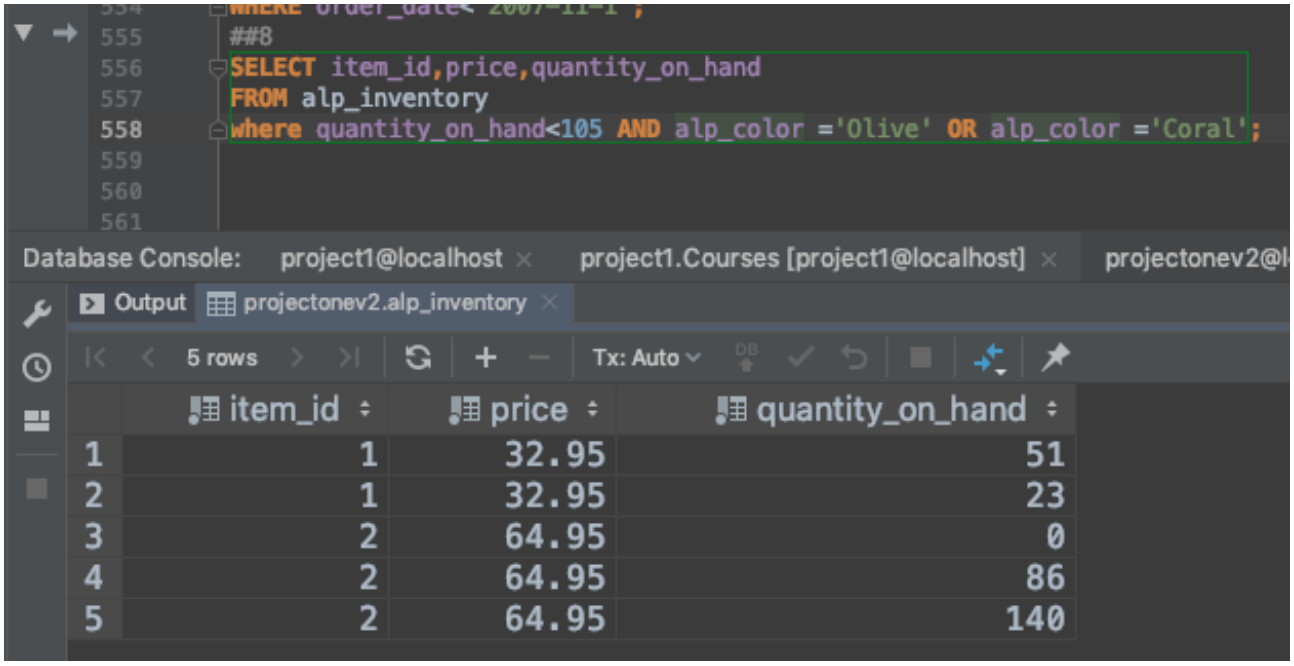
26 rows | Tx: Auto

	item_id	price	quantity_on_hand
1	5	274.99	14
2	5	274.99	8
3	1	32.95	57
4	1	32.95	89
5	1	32.95	0
6	1	32.95	110
7	1	32.95	51
8	1	32.95	23
9	2	64.95	112
10	2	64.95	37
11	2	64.95	125
12	2	64.95	0
13	2	64.95	86
14	2	64.95	140
15	3	15.99	78
16	3	15.99	86
17	3	15.99	23
18	3	15.99	89
19	3	15.99	56
20	3	15.99	35
21	3	15.99	84
22	3	15.99	0
23	4	199.95	92
24	4	199.95	17
25	4	209.95	0
26	4	209.95	12

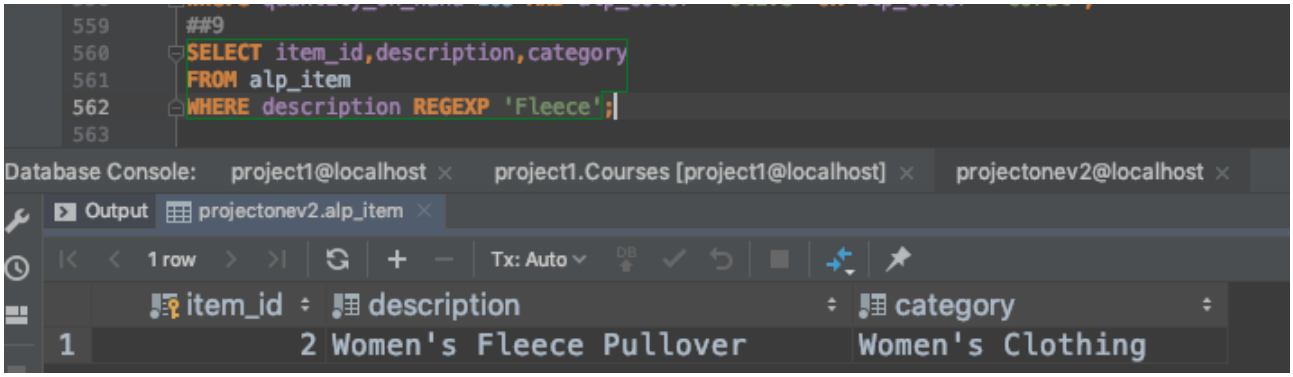
7.


##7
SELECT order_id,order_date
FROM alp_orders
WHERE order_date<'2007-11-1';
Database Console:
project1@localhost
project1.Course
Output
projectonev2.alp_orders
2 rows
Tx: Auto
order_id
order_date
1 1 2007-10-10
2 2 2007-10-31

8.


##8
SELECT item_id,price,quantity_on_hand
FROM alp_inventory
where quantity_on_hand<105 AND alp_color ='Olive' OR alp_color ='Coral';
Database Console:
project1@localhost
project1.Courses [project1@localhost]
Output
projectonev2.alp_inventory
5 rows
Tx: Auto
item_id
price
quantity_on_hand
1 1 32.95 51
2 1 32.95 23
3 2 64.95 0
4 2 64.95 86
5 2 64.95 140

9.


559 ##9
560 SELECT item_id,description,category
561 FROM alp_item
562 WHERE description REGEXP 'Fleece';
563
Database Console: project1@localhost project1.Courses [project1@localhost] projectonev2@localhost
Output projectonev2.alp_item
1 row
Tx: Auto
item_id description category
1 2 Women's Fleece Pullover Women's Clothing

10.

```
563  ##10
564  SELECT item_id,price
565  FROM alp_inventory
566  where item_size IS NULL OR alp_color IS NULL;
567
```

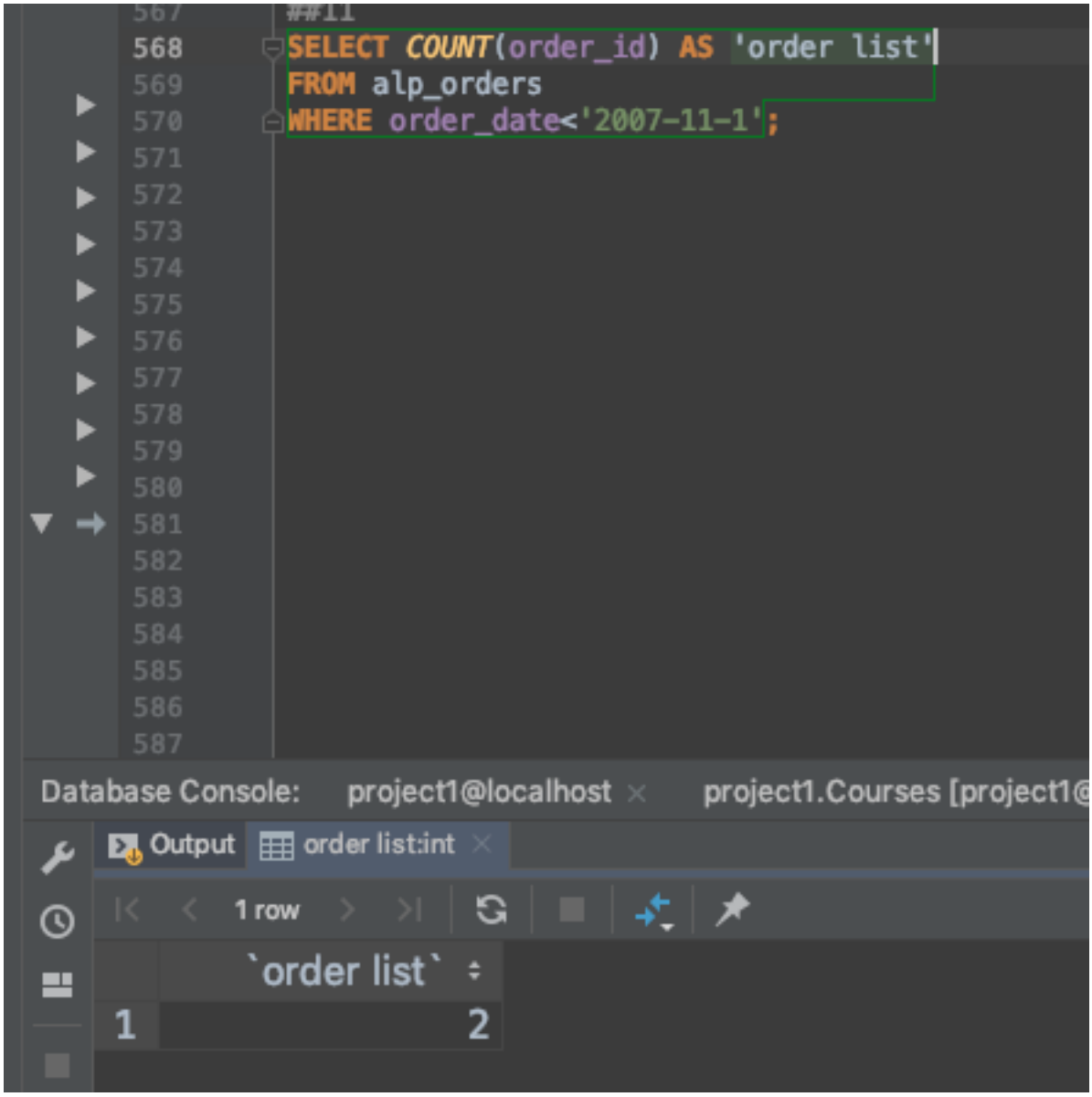
Database Console: project1@localhost × project1.Courses [project1@localh

Output | projectonev2.alp_inventory ×

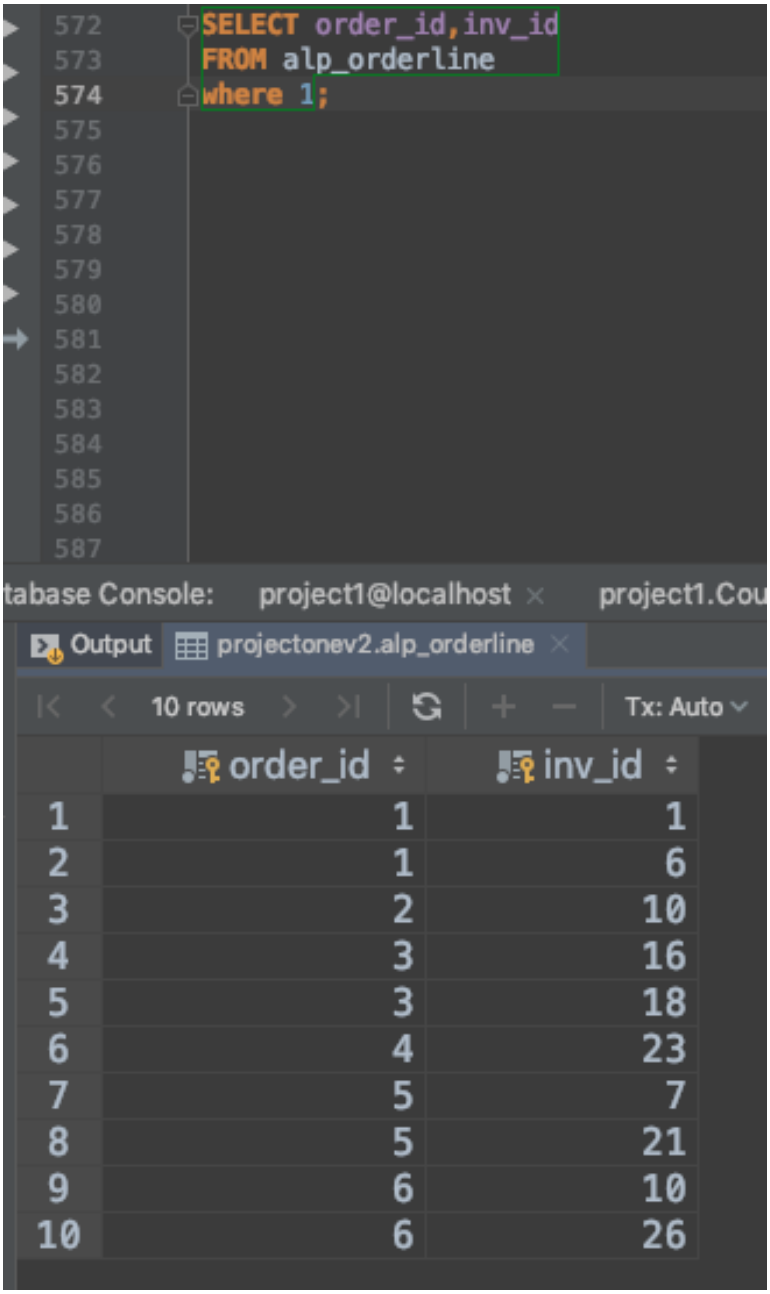
2 rows | Tx: Auto

	item_id	price
1	5	274.99
2	5	274.99

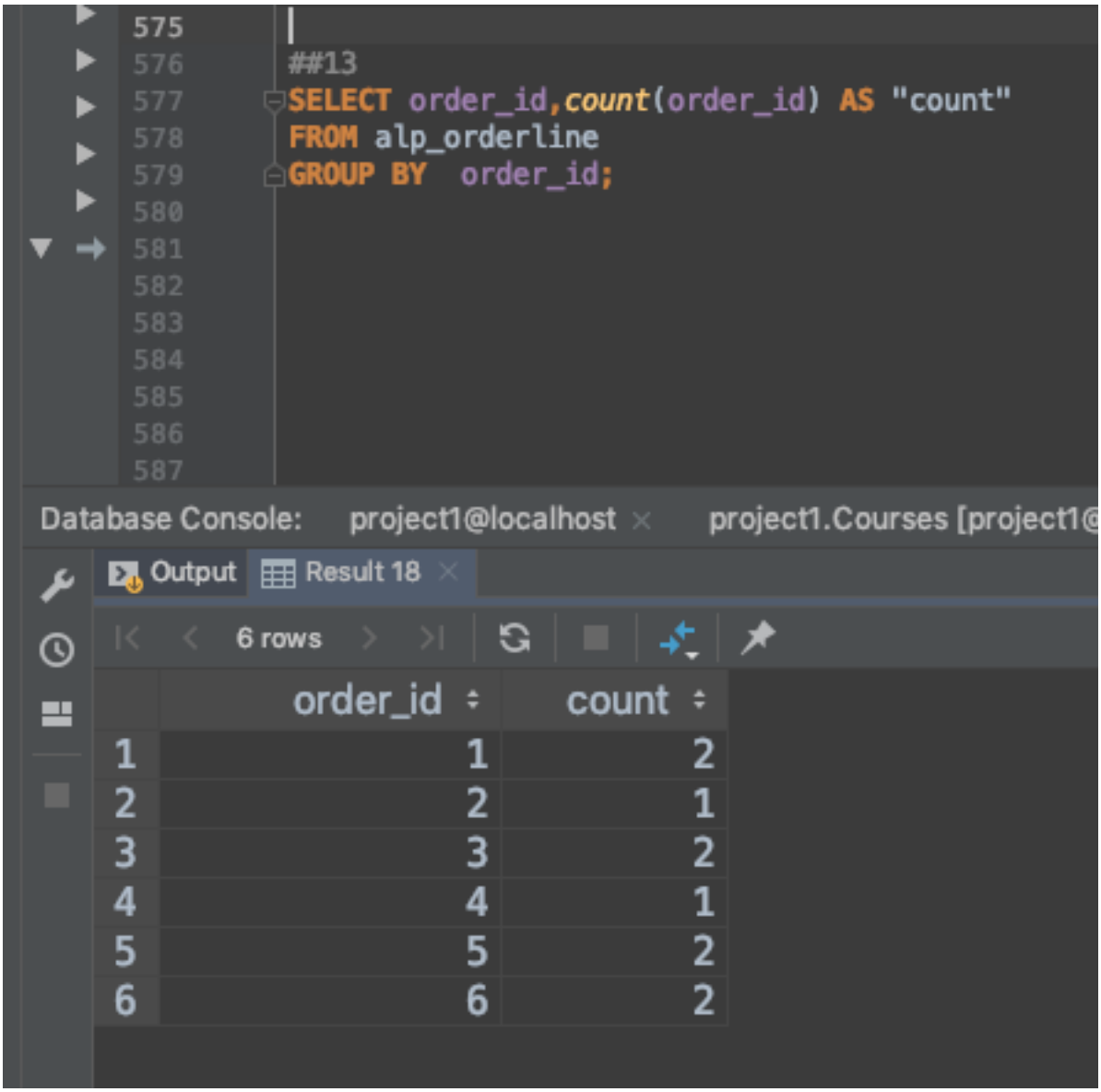
11.


##11
SELECT COUNT(order_id) AS 'order list'
FROM alp_orders
WHERE order_date<'2007-11-1';
Database Console:
project1@localhost
project1.Courses [project1@
Output
order list:int
1 row
`order list`
1
2

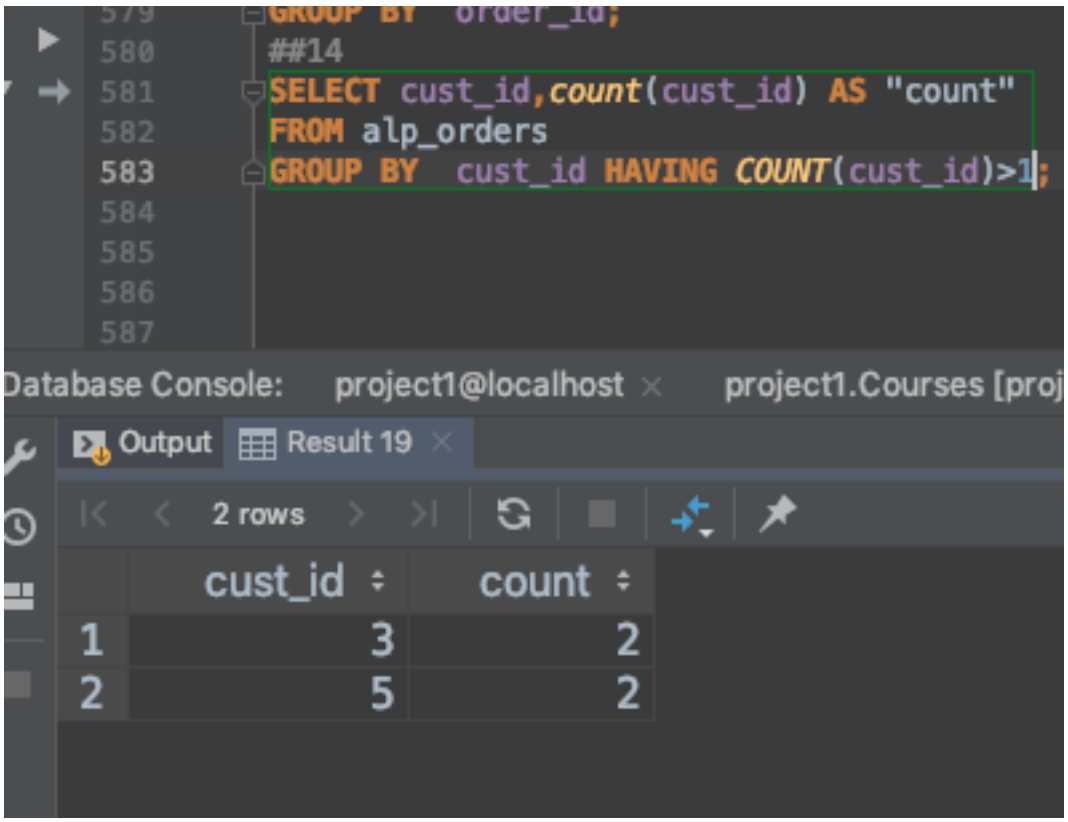
12.


572 SELECT order_id,inv_id
573 FROM alp_orderline
574 where 1;
575
576
577
578
579
580
581
582
583
584
585
586
587
tabase Console: project1@localhost project1.Cou
Output projectonev2.alp_orderline
10 rows
Tx: Auto
order_id inv_id
1 1 1
2 1 6
3 2 10
4 3 16
5 3 18
6 4 23
7 5 7
8 5 21
9 6 10
10 6 26

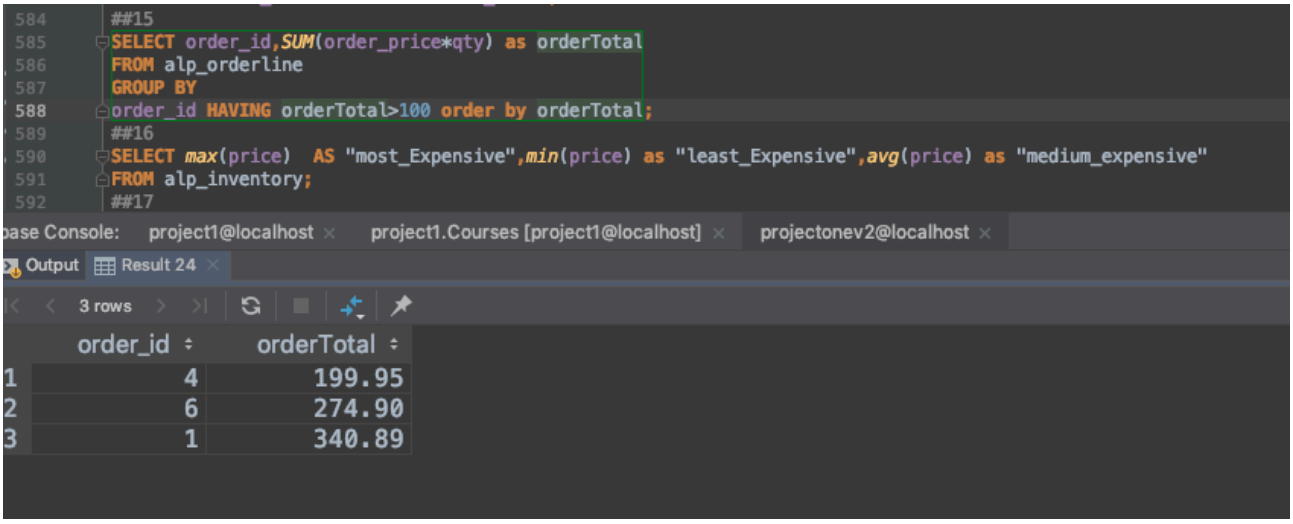
13


575
576 ##13
577 SELECT order_id,count(order_id) AS "count"
578 FROM alp_orderline
579 GROUP BY order_id;
580
581
582
583
584
585
586
587
Database Console: project1@localhost project1.Courses [project1@
Output
Result 18
6 rows
order_id count
1 1 2
2 2 1
3 3 2
4 4 1
5 5 2
6 6 2

14


GROUP BY order_id;
##14
SELECT cust_id,count(cust_id) AS "count"
FROM alp_orders
GROUP BY cust_id HAVING COUNT(cust_id)>1;
Database Console: project1@localhost project1.Courses [proj
Output
Result 19
2 rows
cust_id
count
1 3 2
2 5 2

15


584 ##15
585 SELECT order_id,SUM(order_price*qty) as orderTotal
586 FROM alp_orderline
587 GROUP BY
588 order_id HAVING orderTotal>100 order by orderTotal;
589 ##16
590 SELECT max(price) AS "most_Expensive",min(price) as "least_Expensive",avg(price) as "medium_expensive"
591 FROM alp_inventory;
592 ##17
base Console: project1@localhost project1.Courses [project1@localhost] projectonev2@localhost
Output Result 24
3 rows
order_id orderTotal
1 4 199.95
2 6 274.90
3 1 340.89

16

```
589  ##16
590  SELECT max(price)  AS "most_Expensive",min(price) as "least_Expensive",avg(price) as "medium_expensive"
591  FROM alp_inventory;
592
593
```

abase Console: project1@localhost × project1.Courses [project1@localhost] × projectonev2@localhost ×

Output Result 22 ×

1 row

	most_Expensive	least_Expensive	medium_expensive
1	274.99	15.99	80.196154

17

```
592  ##17
593  SELECT *from alp_inventory
594  WHERE price>(select AVG(price) from alp_inventory);
595
```

base Console: project1@localhost × project1.Courses [project1@localhost] × projectonev2@localhost ×

Output projectonev2.alp_inventory ×

6 rows | Tx: Auto

	inv_id	item_id	item_size	alp_color	price	quantity_on_hand
1	1	5	<null>	Sienna	274.99	14
2	2	5	<null>	Forest	274.99	8
3	23	4	S	Green	199.95	92
4	24	4	M	Green	199.95	17
5	25	4	L	Green	209.95	0
6	26	4	XL	Green	209.95	12