

Project 1:
section number: 1
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Signature:

```
SQL> start query1
SQL> select pid, name from products where (qoh-10) >= qoh_threshold
and discnt_rate > 0.1;
```

PID	NAME
-----	------

p003	camera
------	--------

p007	tablet
------	--------

```
SQL> start query2
SQL> select distinct name, telephone# from customers c, purchases p
where c.cid = p.cid and c.telephone# like '%666%' and
to_char(p.ptime,'Month') like '%October%' and
2 to_char(ptime, 'YYYY') like '%2017%';
```

NAME	TELEPHONE#
------	------------

Kathy	666-555-4567
-------	--------------

Joe	666-555-5746
-----	--------------

```
SQL> start query3
SQL> select distinct name, telephone# from customers c, purchases p
where c.cid = p.cid and c.visits_made >= 1 and p.total_price >=100 and
to_char(p.ptime,'Month') like
2 '%October%' and to_char(ptime, 'YYYY') like '%2017%';
```

NAME	TELEPHONE#
------	------------

Kathy	666-555-4567
-------	--------------

Mike	999-555-5674
------	--------------

Joe

666-555-5746

SQL> start query4

```
SQL> select distinct p.pid, name from products p where
(p.original_price * (1- p.discnt_rate)) < 10 and pid in
  2 (select pid from purchases pr where pr.pid = p.pid and
  3 to_char(pr.ptime,'YYYY') like '%2017%' and
  4 to_char(pr.ptime,'Month') like '%Aug%' or
  5 to_char(pr.ptime,'Month') like '%Sep%');
```

PID NAME

p005 chair

SQL> start query5

```
SQL> select pr.pur#, pr.eid, pr.pid, pr.cid, pr.qty, pr.ptime,
pr.total_price from purchases pr,customers cr
  2 where pr.cid = cr.cid and cr.name like '%K%' and eid in
  3 (select eid from employees er, products p where er.eid = pr.eid
and er.telephone# like '%888%' and original_price in
  4 (select original_price from products p where p.original_price <15
and p.pid = pr.pid));
```

PUR#	EID	PID	CID	QTY	PTIME	TOTAL_PRICE
100009	e03	p001	c007	1	12-OCT-17	8.99

SQL> start query6

SQL> set linesize 250

SQL> column product heading 'product name'

```
SQL> select distinct pr.pur#, p.name as product,
to_char(pr.ptime,'Month dd,yyyy Day HH:MM:SS')
  2 as ptime, pr.total_price, p.original_price * pr.qty-
pr.total_price
  3 as savings from purchases pr, products p where p.pid = pr.pid;
```

PUR#	product name	PTIME
TOTAL_PRICE	SAVINGS	

100008	lamp	August 16,2017 Wednesday 12:08:15
17.96	1.99	
100005	tablet	October 15,2017 Sunday 01:10:55
119.2	29.8	
100012	computer	September 18,2017 Monday 03:09:38
698.6	299.4	
100009	stapler	October 12,2017 Thursday 02:10:23
8.99	1	
100001	TV	August 12,2017 Saturday 10:08:30

211.65	37.35				
100003	pencil	October	08,2017	Sunday	09:10:50
4.95	0				
100011	pencil	October	16,2017	Monday	04:10:40
9.9	0				
100006	computer	October	12,2017	Thursday	03:10:10
349.3	149.7				
100007	lamp	September	10,2017	Sunday	05:09:20
35.91	3.99				
100002	camera	September	20,2017	Wednesday	11:09:36
118.4	29.6				
100013	lamp	August	30,2017	Wednesday	10:08:25
35.91	3.99				

PUR#	product name	PTIME
TOTAL_PRICE	SAVINGS	

100014	powerbank	October	14,2017	Saturday	10:10:06
134.84	15.01				
100010	TV	September	19,2017	Tuesday	05:09:37
211.65	37.35				
100004	chair	August	23,2017	Wednesday	04:08:35
18.17	7.79				

14 rows selected.

SQL>

SQL> start query7

SQL> select distinct eid from employees e, customers c where
c.telephone# in(select telephone# from customers where
2 substr(e.telephone#,0,3) = substr(c.telephone#,0,3)) order by eid
asc;

EID

e01

e02

e03

e04

SQL> start query8

SQL> select distinct c.name as name from customers c,purchases pr,
products p
2 where visits_made >=2 and pr.cid in
3 (select cid from purchases pr where c.cid = pr.cid
and
4 trunc(c.last_visit_date) = trunc(pr.ptime)and
p.pid in

```

5          (select pid from products p where pr.pid = p.pid
and
6          (p.original_price * (1- p.discnt_rate)) < 100));

```

NAME

Connie

Mike

SQL>

SQL> start query9

```

SQL> select e.name from employees e where e.eid not in
2   (select pr.eid from purchases pr where e.eid = pr.eid and pr.pid
not in
3   (select p.pid from products p where p.original_price >=200) );

```

NAME

Mike

SQL>

```

SQL> select e.name from employees e where not exists
2   (select pr.eid from purchases pr where e.eid = pr.eid and not
exists
3   (select p.pid from products p where p.pid = pr.pid and
4   p.original_price >=200));

```

NAME

Mike

SQL> start query10

```

SQL> select cid,name from customers c where not exists
2   (select * from products p where pid in
3   (select pid from purchases where cid = 'c005') and not exists
4   (select * from purchases where cid = c.cid and pid = p.pid));

```

CID NAME

c003 Chris

c005 Mike

SQL>

SQL> start query11

```

SQL> select c.cid from customers c where
to_char(c.last_visit_date,'YYYY') like '%2017%'
2   and to_char(c.last_visit_date,'Month') like '%Oct%' and not
exists
3   (select * from products p where p.original_price > 200 and not
exists

```

```
4 (select * from purchases pr where pr.cid = c.cid and p.pid =
pr.pid));
```

CID

```
----
c001
```

```
SQL> start query12
```

```
SQL> select distinct e.eid, e.name from employees e, purchases pr
where e.eid = pr.eid and pr.pid in(
2 select p.pid from products p, purchases pr where p.pid = pr.pid
and p.name = 'chair' or p.name = 'camera');
```

EID NAME

```
--- -----
e01 David
```

```
SQL> start query13
```

```
SQL> select c.name from customers c, purchases pr
2 where c.cid = pr.cid and pr.total_price in (select
max(pr.total_price)
3 from purchases pr);
```

NAME

```
-----
Chris
```

```
SQL> start query14
```

```
SQL> column original_price*discont_rate heading 'discount amount'
SQL> select p.pid,p.name,original_price*discont_rate from products p
where
2 p.original_price * p.discont_rate in
3 (select max(p.original_price * p.discont_rate)from products p);
```

PID	NAME	discount amount
p008	computer	149.7

```
SQL> start query15
```

```
SQL> column sum(total_price) heading 'Total Sale'
SQL> select to_char(ptime, 'YYYY/MM') as Month, sum(total_price) from
2 purchases group by (to_char(ptime, 'YYYY/MM'));
```

MONTH	Total Sale
2017/08	283.69
2017/09	1064.56
2017/10	627.18

```
SQL> start query16
```

```

SQL> column total heading 'total quantity sold'
SQL> select p.pid, p.name,temp.total
  2      from (select pid, sum(qty) total
  3              from purchases group by pid) temp, products p
  4              where p.pid = temp.pid and temp.total = (select
  5                  max(sum(qty))
  6                  from purchases group by pid);

```

PID	NAME	total quantity sold
p004	pencil	15

```

SQL> start query17
SQL> select pr.pur#, (pr.qty*p.original_price)- pr.total_price as
saving
  2  from purchases pr, products p where p.pid = pr.pid
  3      and (pr.qty*p.original_price)- pr.total_price = (select
  4  max((pr.qty*p.original_price)- pr.total_price)
  5      from purchases pr, products p where p.pid = pr.pid);

```

PUR#	SAVING
100012	299.4

```

SQL> start query18
SQL> select pr.pur# from purchases pr where pr.total_price >=
  2  (select max(pr1.total_price) from purchases pr1 where pr1.cid
='c006');

```

PUR#
100001
100006
100010
100012

```

SQL>
SQL>
SQL> select pr.pur# from purchases pr where pr.total_price >= ( select
  2  pr1.total_price from purchases pr1
  3  where pr1.cid ='c006' and not exists (select pr2.total_price from
  4  purchases pr2 where pr2.cid ='c006' and pr2.total_price >
pr1.total_price));

```

PUR#
100001
100006
100010
100012

```

SQL> start query19
SQL> column amount heading 'total amount spent'
SQL> select c.cid, c.name, temp.amount
  2      from(select pr.cid, sum(pr.total_price) amount
  3      from purchases pr group by pr.cid
  4      order by amount desc) temp,
  5      customers c
  6      where c.cid = temp.cid and rownum<=3;

```

CID	NAME	total amount spent
c003	Chris	752.68
c001	Kathy	679.35
c006	Connie	221.55

```

SQL> start query20
SQL> column count(temp.pid) heading 'total number of customer'
SQL> select p.pid,p.name, count(temp.pid)
  2      from (select pid from purchases where to_char(pptime,'Month')
like
  3      '%0ct%'
  4      and to_char(pptime,'YYYY') like '%2017%' ) temp,
  5      products p
  6      where temp.pid (+) = p.pid
  7      group by p.pid,p.name
  8      order by p.pid;

```

PID	NAME	total number of customer
p001	stapler	1
p002	TV	0
p003	camera	0
p004	pencil	2
p005	chair	0
p006	lamp	0
p007	tablet	1
p008	computer	1
p009	powerbank	1

9 rows selected.

```
SQL> spool off
```