Consider the following **Sales** table.

order_id	purchase_amount	purchase_date	cust_id
11	2000	2023-08-15	402
12	1000	2023-07-25	403
13	2000	2023-07-15	405
14	1000	2023-08-25	401
15	2000	2023-07-10	405
16	1500	2023-08-15	401
17	2500	2023-07-12	402
18	1600	2023-08-15	401

Consider the following **Sales** table.

order_id	purchase_amount	purchase_date	cust_id
11	2000	2023-08-15	402
12	1000	2023-07-25	403
13	2000	2023-07-15	405
14	1000	2023-08-25	401
15	2000	2023-07-10	405
16	1500	2023-08-15	401
17	2500	2023-07-12	402
18	1600	2023-08-15	401

Create the above tables; Insert the data.

//for sales

create table sales_02(orderid varchar(4),

   -> purchaseamount int(6),

   -> purchasedate date,

   -> custid varchar(6));

desc sales_02;

```
+---------------+------------+------+-----+---------+-------+
| Field         | Type       | Null | Key | Default | Extra |
+---------------+------------+------+-----+---------+-------+
| orderid       | varchar(4) | YES  |     | NULL    |       |
| purchaseamount | int       | YES  |     | NULL    |       |
| purchasedate  | date       | YES  |     | NULL    |       |
| custid        | int        | YES  |     | NULL    |       |
+---------------+------------+------+-----+---------+-------+
```

insert into sales_02 values('11',2000,'2023-08-15','402');

insert into sales_02 values('12',1000,'2023-07-25','403');

insert into sales_02 values('13',2000,'2023-07-15','405');

insert into sales_02 values('14',1000,'2023-08-25','401');

insert into sales_02 values('15',2000,'2023-07-10','405');

insert into sales_02 values('16',1500,'2023-08-15','401');

insert into sales_02 values('17',2500,'2023-07-12','402');

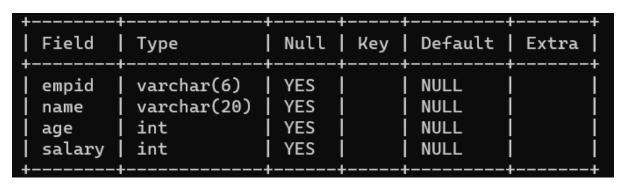insert into sales_02 values('18',1600,'2023-08-15','401');

select * from sales_02;

```
+---------+----------------+--------------+--------+
| orderid | purchaseamount | purchasedate | custid |
+---------+----------------+--------------+--------+
| 11      |           2000 | 2023-08-15   |    402 |
| 12      |           1000 | 2023-07-25   |    403 |
| 13      |           2000 | 2023-07-15   |    405 |
| 14      |           1000 | 2023-08-25   |    401 |
| 15      |           2000 | 2023-07-10   |    405 |
| 16      |           1500 | 2023-08-15   |    401 |
| 17      |           2500 | 2023-07-12   |    402 |
| 18      |           1600 | 2023-08-15   |    401 |
+---------+----------------+--------------+--------+
```

//for emp

create table emp_2(empid varchar(6),

   -> name varchar(20),

   -> age int(4),

   -> salary int(8));

desc emp_2;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| empid  | varchar(6)  | YES  |     | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| age    | int         | YES  |     | NULL    |       |
| salary | int         | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

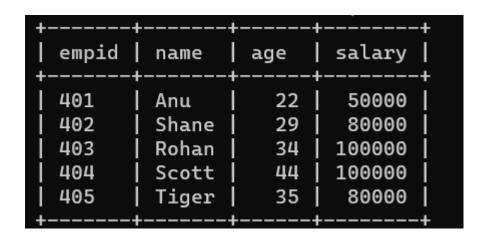insert into emp_2 values('401','Anu',22,50000);

insert into emp_2 values('402','Shane',29,80000);

insert into emp_2 values('403','Rohan',34,100000);

insert into emp_2 values('404','Scott',44,100000);

insert into emp_2 values('405','Tiger',35,80000);

select * from emp_2;

```
+--------+--------+--------+--------+
| empid  | name   | age    | salary |
+--------+--------+--------+--------+
| 401    | Anu    |   22   |  50000 |
| 402    | Shane  |   29   |  80000 |
| 403    | Rohan  |   34   | 100000 |
| 404    | Scott  |   44   | 100000 |
| 405    | Tiger  |   35   |  80000 |
+--------+--------+--------+--------+
```

Find out the names of all the customers who purchased more than 3000 in total.

select name from emp_2 join sales_02 on emp_2.empid = sales_02.custid group by name having SUM(sales_02.purchaseamount)>3000;

```
+--------+
| name   |
+--------+
| Shane  |
| Tiger  |
| Anu    |
+--------+
```
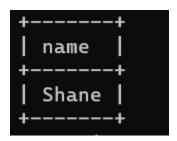
Find the name of the customer who earn the 2nd highest salary.

select name from emp_2 where salary in (select max(salary) from emp_2 where salary < (select max(salary) from emp_2));

```
+--------+
| name   |
+--------+
| Shane  |
| Tiger  |
+--------+
```

Find the name of the customer with highest total order amount.

select name from sales_02 join emp_2 on emp_2.empid=sales_02.custid group by name order by sum(purchaseamount) desc limit 1;

```
+-------+
| name  |
+-------+
| Shane |
+-------+
```

Find the salary of the customer who purchased maximum times.

select salary from emp_2 join sales_02 on emp_2.empid=sales_02.custid group by name,salary order by count(orderid) desc limit 1;

```
+--------+
| salary |
+--------+
|  50000 |
+--------+
```

Find the total sales of the month August.

select sum(purchaseamount) from sales_02 where month(purchasedate)=8;

```
+---------------------+
| sum(purchaseamount) |
+---------------------+
|                6100 |
+---------------------+
1 row in set (0.00 sec)
```

How many purchases have been made in July.

select count(*) from sales_02 where month(purchasedate)=7;

```
+----------+
| count(*) |
+----------+
|        4 |
+----------+
```

Find the details of purchase made after the purchase of Rohan.

select orderid, purchaseamount, purchasedate, name from sales_02 join emp_2 on sales_02.custid = emp_2.empid where purchasedate > (select purchasedate from sales_02 join emp_2 on sales_02.custid = emp_2.empid where name = 'Rohan');

```
+----------+----------------+--------------+--------+
| orderid  | purchaseamount | purchasedate | name   |
+----------+----------------+--------------+--------+
| 18       |           1600 | 2023-08-15   | Anu    |
| 16       |           1500 | 2023-08-15   | Anu    |
| 14       |           1000 | 2023-08-25   | Anu    |
| 11       |           2000 | 2023-08-15   | Shane  |
+----------+----------------+--------------+--------+
```

/*select sysdate() from dual;

```
+---------------------+
| sysdate()           |
+---------------------+
| 2023-09-02 16:48:40 |
+---------------------+
```

*/