```
SELECT customer_id FROM orders ORDER BY customer_id DESC LIMIT 4,1
```

customer_id
3005

```
SELECT *
FROM orders
WHERE purch_amt >
    (SELECT  AVG(purch_amt)
     FROM orders );
```

ord_no	purch_amt	ord_date	customer_id	salesman_id
70005	2400.6	27-07-2012	3007	5001
70008	5760	10-09-2012	3002	5001
70010	1983.43	10-10-2012	3004	5006
70003	2480.4	10-10-2012	3009	5003
70013	3045.6	25-04-2012	3002	5001

```
SELECT *
FROM orders
WHERE salesman_id IN
    (SELECT salesman_id
     FROM salesman
     WHERE city='nagpur');
```

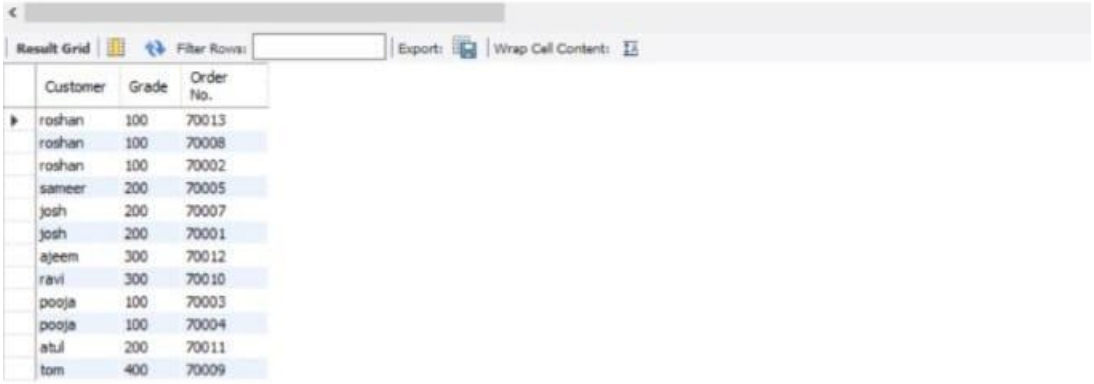
ord_no	purch_amt	ord_date	customer_id	salesman_id
70011	75.29	17-08-2012	3003	5007

```
SELECT ord_date, SUM(purch_amt),
SUM(purch_amt)*.15
FROM orders
GROUP BY ord_date
ORDER BY ord_date;
```

ord_date	SUM(purch_amt)	SUM(purch_amt)*.15
05-10-2012	215.76	32.364
10-09-2012	6708.5	1006.275
10-10-2012	4463.83	669.5745
17-08-2012	75.29	11.2935
2012-08-17	110.5	16.575
2012-09-10	270.65	40.5975
25-04-2012	3045.6	456.84
27-06-2012	250.45	37.567499999999995
27-07-2012	2400.6	360.09

entity – entity can be real-world object. it is a collection of related attributes or properties.example: employee, department, etc. Strong Entity –An entity that has a primary key is called as Strong entity. Rectangle represents strong entity. Weak Entity –Weak entity doesn't have sufficient attributes to form a primary key of its own. Double rectangle represents weak entity.The entity-relationship (ER) model is used to design relational databases by removing all existing redundancy in the data. The basic object of the ER model is an entity—that is, a real-world object. Each entity has several attributes, which are properties of the entity and therefore describe it

```
1  SELECT customer.cust_name AS "Customer",
2  customer.grade AS "Grade",orders.ord_no AS "Order No."
3  FROM orders, salesman, customer
4  WHERE orders.customer_id = customer.custemor_id
5  AND orders.salesman_id = salesman.salesman_id
6  AND salesman.city IS NOT NULL
7  AND customer.grade IS NOT NULL;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer	Grade	Order No.
roshan	100	70013
roshan	100	70008
roshan	100	70002
sameer	200	70005
josh	200	70007
josh	200	70001
ajeem	300	70012
ravi	300	70010
pooja	100	70003
pooja	100	70004
atul	200	70011
tom	400	70009