

--Q1

```
SELECT * FROM customers where city='New York' ORDER BY cust_name ASC;
```

Results		Messages			
	customer_id	cust_name	city	grade	salesman_id
1	3007	John Brad Davis	New York	200	5001
2	3002	Nick Rimando	New York	100	5001

--Q2

```
SELECT * FROM customers where cust_name LIKE '%John%' AND city in ('London', 'Paris', 'New York');
```

Results		Messages			
	customer_id	cust_name	city	grade	salesman_id
1	3001	John Brad Guzan	London	NULL	5005
2	3004	Fabian Johnson	Paris	300	5006
3	3007	John Brad Davis	New York	200	5001

--Q3

```
Select * FROM customers where city='London' OR city='New York';
```

Results		Messages			
	customer_id	cust_name	city	grade	salesman_id
1	3001	John Brad Guzan	London	NULL	5005
2	3002	Nick Rimando	New York	100	5001
3	3007	John Brad Davis	New York	200	5001
4	3008	Julian Green	London	300	5002

--Q4

```
SELECT * FROM orders where purch_amt > 500;
```

Results		Messages			
	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	70003	2480.4	2013-10-10	3009	5003
2	70005	2400.6	2010-07-27	3007	5001
3	70007	948.5	2012-09-10	3005	5002
4	70008	5760	2013-09-10	3002	5001
5	70010	1983.43	2010-10-10	3004	5006
6	70013	3045.6	2010-04-25	3002	5001

--Q5

```
SELECT * FROM salesman where name LIKE '_a%';
```

Results		Messages		
	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.12
4	5007	Paul Adam	San Jose	0.13

--Q6

```
SELECT * FROM salesman;
```

```
UPDATE salesman SET commission = commission + 0.5 where city='San Jose';
```

```
SELECT * FROM salesman;
```

Results		Messages		
	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.12
4	5005	Pit Alex	London	0.11
5	5006	Mc Lyon	Paris	0.14
6	5007	Paul Adam	San Jose	0.13

  

	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.62
4	5005	Pit Alex	London	0.11
5	5006	Mc Lyon	Paris	0.14
6	5007	Paul Adam	San Jose	0.63

--Q7

SELECT \* from orders ORDER BY ord\_date ASC;

Results		Messages		
	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.12
4	5005	Pit Alex	London	0.11
5	5006	Mc Lyon	Paris	0.14
6	5007	Paul Adam	San Jose	0.13

  

	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.62
4	5005	Pit Alex	London	0.11
5	5006	Mc Lyon	Paris	0.14
6	5007	Paul Adam	San Jose	0.63

--Q8

```
ALTER TABLE salesman ADD first_name varchar(255);
UPDATE salesman SET first_name=LEFT(name, charindex(' ', name) - 1);
ALTER TABLE salesman DROP COLUMN name;
Select * from salesman;
```

Results		Messages		
	salesman_id	city	commission	first_name
1	5001	New York	0.15	James
2	5002	Paris	0.13	Nail
3	5003	San Jose	0.62	Lauson
4	5005	London	0.11	Pit
5	5006	Paris	0.14	Mc
6	5007	San Jose	0.63	Paul

--Q9

```
SELECT * from orders where MONTH(ord_date) = 1;
```

Results		Messages			
	ord_no	purch_amt	ord_date	customer_id	salesman_id

--Q10

```
SELECT DATEPART(YEAR, ord_date) as year,
DATEPART(WEEK, ord_date) as Week,
DATEPART(dayofyear, ord_date) as DayOfYear,
DATEPART(MONTH, ord_date) as Month,
DATEPART(DAY, ord_date) as Day,
DATEPART(WEEKDAY, ord_date) + 1 as DayOfWeek
from orders where MONTH(ord_date) = 10;
```

Results		Messages				
	year	Week	DayOfYear	Month	Day	DayOfWeek
1	2012	40	279	10	5	7
2	2014	41	278	10	5	2
3	2013	41	283	10	10	6
4	2010	42	283	10	10	2

```
--Q11
select * from orders;
UPDATE orders SET purch_amt = purch_amt*3 where MONTH(ord_date)=10;
select * from orders;
```

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	70001	150.5	2012-10-05	3005	5002
2	70002	65.26	2014-10-05	3002	5001
3	70003	2480.4	2013-10-10	3009	5003
4	70004	110.5	2011-08-17	3009	5003
5	70005	2400.6	2010-07-27	3007	5001
6	70007	948.5	2012-09-10	3005	5002
7	70008	5760	2013-09-10	3002	5001
8	70009	270.65	2011-09-10	3001	5005
9	70010	1983.43	2010-10-10	3004	5006
10	70011	75.29	2014-08-17	3003	5007
11	70012	250.45	2010-06-27	3008	5002
12	70013	3045.6	2010-04-25	3002	5001

  

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	70001	451.5	2012-10-05	3005	5002
2	70002	195.78	2014-10-05	3002	5001
3	70003	7441.2	2013-10-10	3009	5003
4	70004	110.5	2011-08-17	3009	5003
5	70005	2400.6	2010-07-27	3007	5001
6	70007	948.5	2012-09-10	3005	5002
7	70008	5760	2013-09-10	3002	5001
8	70009	270.65	2011-09-10	3001	5005
9	70010	5950.29	2010-10-10	3004	5006
10	70011	75.29	2014-08-17	3003	5007
11	70012	250.45	2010-06-27	3008	5002
12	70013	3045.6	2010-04-25	3002	5001

```
--Q12
select customers.customer_id, customers.cust_name, customers.city, customers.grade,
customers.salesman_id FROM customers INNER JOIN orders on
orders.customer_id=customers.customer_id where YEAR(ord_date) = 2011 OR
YEAR(ord_date)=2013;
```

Results Messages					
	customer_id	cust_name	city	grade	salesman_id
1	3009	Geoff Cameron	Berlin	100	5003
2	3009	Geoff Cameron	Berlin	100	5003
3	3002	Nick Rimando	New York	100	5001
4	3001	John Brad Guzan	London	NULL	5005

--Q13

```
SELECT TOP 1 * from salesman ORDER BY commission DESC;
```

Results Messages				
	salesman_id	city	commission	first_name
1	5007	San Jose	0.63	Paul

**DATA FOR REFERENCE (AT END OF THESE QUESRIES)**

Results Messages

	customer_id	cust_name	city	grade	salesman_id
1	3001	John Brad Guzan	London	NULL	5005
2	3002	Nick Rimando	New York	100	5001
3	3003	Jozy Altidor	Moscow	200	5007
4	3004	Fabian Johnson	Paris	300	5006
5	3005	Graham Zusi	California	200	5002
6	3007	John Brad Davis	New York	200	5001
7	3008	Julian Green	London	300	5002
8	3009	Geoff Cameron	Berlin	100	5003

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	70001	451.5	2012-10-05	3005	5002
2	70002	195.78	2014-10-05	3002	5001
3	70003	7441.2	2013-10-10	3009	5003
4	70004	110.5	2011-08-17	3009	5003
5	70005	2400.6	2010-07-27	3007	5001
6	70007	948.5	2012-09-10	3005	5002
7	70008	5760	2013-09-10	3002	5001
8	70009	270.65	2011-09-10	3001	5005
9	70010	5950.29	2010-10-10	3004	5006
10	70011	75.29	2014-08-17	3003	5007
11	70012	250.45	2010-06-27	3008	5002
12	70013	3045.6	2010-04-25	3002	5001

	salesman_id	city	commission	first_name
1	5001	New York	0.15	James
2	5002	Paris	0.13	Nail
3	5003	San Jose	0.62	Lauson
4	5005	London	0.11	Pit
5	5006	Paris	0.14	Mc
6	5007	San Jose	0.63	Paul