Tables

Tables							
customer	cust na	mo I	ci	+ 5 7	arad	o gal	osman id
	+	e +-					
3007 3008 3008 3009 3009	Prad Parad P	is usi reen ohnson meron	New Cali Lond Pari Berl Mosc	York fornia on s in ow	2 2 3 3 1 2	00 00 00 00	5001 5001 5002 5002 5006 5003 5007 5005
orders ord_no	purch_amt	ord_date	9	custome	r_id	salesma	an_id
70001 70009 70002 70004 70007 70005 70008 70010 70003 70012 70011	150.5 270.65 65.26 110.5 948.5 2400.6 5760 1983.43 2480.4 250.45 75.29 3045.6	2012-10- 2012-09- 2012-08- 2012-09- 2012-07- 2012-09- 2012-10- 2012-10- 2012-06- 2012-08-	-05 -10 -05 -17 -10 -27 -10 -10 -27 -17	3005 3001 3002 3009 3005 3007 3002 3004 3009 3008 3003		5002 5005 5001 5003 5002	
	name	city		commis	sion		
5001 5002 5005 5006 5003 5007	James Hoog Nail Knite Pit Alex Mc Lyon Lauson Hen Paul Adam	Paris London Paris San Jos	se	0.13 0.11 0.14			
company_mast COM_ID COM_NAME							
11 Samsung 12 iBall 13 Epsion							

- 14 Zebronics
- 15 Asus
- 16 Frontech

item mast

PRO_ID PRO_NAME	PRO_PRICE	PRO_COM
101 Mother Board	3200.00	15
102 Key Board	450.00	16
103 ZIP drive	250.00	14
104 Speaker	550.00	16
105 Monitor	5000.00	11
106 DVD drive	900.00	12
107 CD drive	800.00	12
108 Printer	2600.00	13
109 Refill cartridge	350.00	13
110 Mouse	250.00	12

emp_department

DPT_CODE	DPT_NAME	DPT_ALLOTMENT
57	IT	65000
63	Finance	15000
47	HR	240000
27	RD	55000
89	QC	75000

emp_details

EMP_IDNO B	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

Queries

1. From the salesman and orders tables, find all the orders issued by the salesman 'Paul Adam'. Return ord_no, purch_amt, ord_date, customer_id and salesman_id.

2. From the salesman and orders tables, find all the orders, which are generated by those salespeople, who live in the city of London. Return ord_no, purch_amt, ord_date, customer_id, salesman_id.

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

3. From the orders table, find the orders generated by the salespeople who works for customers whose id is 3007. Return ord_no, purch_amt, ord_date, customer_id, salesman_id. A customer can works only with a salespeople.

```
SELECT *
FROM orders
WHERE salesman_id = (SELECT salesman_id FROM orders WHERE customer_id = 3007)
```

4. From the orders table, find the order values greater than the average order value of 10th October 2012. Return ord_no, purch_amt, ord_date, customer_id, salesman_id.

```
SELECT *
FROM orders
WHERE purch_amt > (SELECT AVG(purch_amt) FROM orders WHERE ord_date
= '2012-10-10')
```

5. From the salesman and orders tables, find all the orders generated in New York city. Return ord_no, purch_amt, ord_date, customer_id and salesman_id.

```
SELECT *
FROM orders
WHERE salesman_id IN (SELECT salesman_id FROM salesman WHERE city = 'New York')
```

_

6. From the customer and salesman tables, find the commission of the salespeople work in Paris City. Return commission.

```
SELECT commission
FROM salesman
WHERE salesman_id IN (SELECT salesman_id FROM customer WHERE city = 'Paris')
```

7. Write a query to display all the customers whose id is 2001 bellow the salesman ID of Mc Lyon.

```
SELECT *
FROM customer
WHERE customer_id = (SELECT salesman_id - 2001 FROM salesman WHERE
name = 'Mc Lyon')
```

8. From the customer table, count number of customers with grades above the average grades of New York City. Return grade and count.

```
SELECT grade, COUNT(grade)

FROM customer

WHERE grade > (SELECT AVG(grade) FROM customer WHERE city = 'New York')

GROUP BY grade
```

9. From the salesman and orders tables, find those salespeople who earned the maximum commission. Return ord_no, purch_amt, ord_date, and salesman_id.

```
SELECT ord_no, purch_amt, ord_date, salesman_id
FROM orders
WHERE salesman_id IN (SELECT salesman_id FROM salesman WHERE
commission = (SELECT MAX(commission) FROM salesman))
```

10. From the customer and orders tables, find the customers whose orders issued on 17th August, 2012. Return ord_no, purch_amt, ord_date, customer_id, salesman_id and cust_name.

```
SELECT o.*, c.cust_name

FROM orders AS o

JOIN customer AS c

ON o.customer_id = c.customer_id

AND o.salesman_id = c.salesman_id

WHERE o.customer_id IN (SELECT customer_id FROM orders WHERE ord_date = '2012-08-17')

AND o.ord_date = '2012-08-17'
```

11. From the customer and salesman tables, find the salespeople who had more than one customer. Return salesman id and name.

```
SELECT salesman_id, name
FROM salesman
WHERE salesman_id IN (SELECT salesman_id FROM customer GROUP BY
salesman_id HAVING COUNT(salesman_id) > 1)
```

12. From the orders table, find those orders, which amount is higher than the average amount of the related customer. Return ord_no, purch amt, ord date, customer id and salesman id.

```
SELECT o.* FROM

orders AS o

JOIN

(

SELECT customer_id, AVG(purch_amt) AS avg

FROM orders

GROUP BY customer_id
) AS c

ON o.customer_id = c.customer_id

WHERE o.purch_amt > c.avg
```

13. From the orders table, find those orders, which are equal or higher than average amount of the orders. Return ord_no, purch_amt, ord_date, customer_id and salesman_id.

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

14. Write a query to find the sums of the amounts from the orders table, grouped by date, eliminating all those dates where the sum was not at least 1000.00 above the maximum order amount for that date.

```
SELECT s.*

FROM
(
SELECT ord_date, SUM(purch_amt) AS sum
FROM orders
```

```
GROUP BY ord_date
) AS s
JOIN
(
SELECT ord_date, MAX(purch_amt) + 1000 AS pmax
FROM orders
GROUP BY ord_date
) AS m
ON s.ord_date = m.ord_date
WHERE s.sum >= m.pmax
```

15. Write a query to extract all data from the customer table if and only if one or more of the customers in the customer table are located in London.

```
SELECT *
FROM customer
WHERE EXISTS (SELECT city FROM customer WHERE city = 'London')
```

16. From the customer and salesman tables, find the salespeople who deal multiple customers. Return salesman_id, name, city and commission.

```
SELECT *
FROM salesman
WHERE salesman_id IN (SELECT salesman_id FROM customer GROUP BY salesman_id HAVING COUNT(salesman_id) > 1)
```

17. From the customer and salesman tables, find the salespeople who deal a single customer. Return salesman_id, name, city and commission.

```
SELECT *
FROM salesman
WHERE salesman_id IN (SELECT salesman_id FROM customer GROUP BY salesman_id HAVING COUNT(salesman_id) = 1)
```

18. From the salesman and orders tables, find the salespeople who deal the customers with more than one order. Return salesman_id, name, city and commission.

```
SELECT * FROM salesman
WHERE salesman_id IN (SELECT salesman_id FROM orders GROUP BY salesman_id HAVING COUNT(salesman_id) > 1)
```

19. From the customer and salesman tables, find the salespeople who deals those customers who live in the same city. Return salesman_id, name, city and commission.

```
SELECT *
FROM salesman
WHERE salesman_id IN (SELECT s.salesman_id FROM salesman AS s JOIN
customer AS c ON s.salesman_id = c.salesman_id WHERE s.city =
c.city)
```

20. From the customer and salesman tables, find the salespeople whose place of living (city) matches with any of the city where customers live. Return salesman_id, name, city and commission.

```
SELECT *
FROM salesman
WHERE city IN (SELECT city FROM customer)
```