Knowledge Streams
SQL Workbook

You are expected to know the following commands before starting work on this workbook.

SELECT, FROM, DISTINCT, WHERE, LIKE, OR, AND, OR NOT, ISNULL, SUM, COUNT, MAX, GROUP BY, HAVING MAX, AS

This is the table that you would be using throughout the workbook.

salesman

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5003	Lauson Hen		0.12
5007	Paul Adam	Rome	0.13

customer

customer_id	customer_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3005	Graham Zusi	California	200	5002
3001	Brad Guzan	London		
3004	Fabian Johns	Paris	300	5006
3007	Brad Davis	New York	200	5001
3009	Geoff Camero	Berlin	100	
3008	Julian Green	London	300	5002
3003	Jozy Altidor	Moncow	200	5007

order

order_no	*purch_amt*	*order_date*	*customer_id*	*salesman_id*
70001	*150.5*	*2016-10-05*	*3005*	*5002*
70009	*270.65*	*2016-09-10*	*3001*	
70002	*65.26*	*2016-10-05*	*3002*	*5001*
70004	*110.5*	*2016-08-17*	*3009*	
70007	*948.5*	*2016-09-10*	*3005*	*5002*
70005	*2400.6*	*2016-07-27*	*3007*	*5001*
70008	*5760*	*2016-09-10*	*3002*	*5001*
70010	*1983.43*	*2016-10-10*	*3004*	*5006*
70003	*2480.4*	*2016-10-10*	*3009*	
70012	*250.45*	*2016-06-27*	*3008*	*5002*
70011	*75.29*	*2016-08-17*	*3003*	*5007*

These 3 tables are related to each other. How? (doesn't matter as it aint the scope of this workbook)

Below you will find all the queries that you need to implement. **(20 points)**

1. Display name and commission of all salesman
2. Retrieve salesman id of all salesmen from orders table without any repeats.
3. Display names and city of salesman, who belongs to the city of Paris.
4. Display names and city of salesman, who belongs to the city of Paris.
5. Display all the information for those customers with a grade of 200.
6. Display the order number, order date and the purchase amount for order(s) which will be delivered by the salesman with ID 5001.
7. Display all the customers, who are either belongs to the city New York or not had a grade above 100.
8. Find those salesmen with all information who gets the commission within a range of 0.12 and 0.14.
9. Find all those customers with all information whose names are ending with the letter 'n'.
10. Find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character.
11. Find that customer with all information who does not get any grade except NULL.
12. Find the total purchase amount of all orders.
13. Find the number of salesman currently listing for all of their customers.
14. Find the highest grade for each of the cities of the customers.
15. Find the highest purchase amount ordered by the each customer with their ID and highest purchase amount.
16. Find the highest purchase amount ordered by the each customer on a particular date with their ID, order date and highest purchase amount.
17. Find the highest purchase amount on a date '2012-08-17' for each salesman with their ID.
18. Find the highest purchase amount with their customer ID and order date, for only those customers who have the highest purchase amount in a day is more than 2000.
19. Write a SQL statement that counts all orders for a date August 17th, 2012. **(2 points)**

These advanced queries are of **2.5 points** each:

1. Find the name and city of those customers and salesmen who lives in the same city.
2. Find the names of all customers along with the salesmen who works for them.
3. Display all those orders by the customers not located in the same cities where their salesmen live.
4. Display all the orders issued by the salesman 'Paul Adam' from the orders table.