

Lab sheet 6
PMDS506P Database Management systems.

Q1. Create the following tables and answer the following questions. The customer's table is,

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

Use operators ANY, ALL, IN, NOT IN, EXISTS, NOT EXISTS and EXCEPT along with subqueries to answer the following questions.

1. Find all customers whose grade is higher than any customer with salesman_id 5001.
2. Find all customers from cities where any customer has a grade of 300.
3. Find all customers whose grade is higher than all customers with salesman_id 5001.
4. Find all customers whose grade is at least as high as all customers in London.
5. Find all customers who are from cities that have customers with salesman_id 5002
6. Find all customers who are not from the cities where salesman_id 5002 operates
7. Find customers who are not from the cities that have customers with a grade of 300
8. Find all customers from cities where there is at least one customer with a grade higher than 150. (use exists)
9. Find all customers whose salesman_id is the same as those who have customers with a grade of 100. (use exists)
10. Find all customers who are from cities where there are no customers with a grade of 50.(use not exists)
11. Find all customers whose salesman_id does not have any customers in cities other than 'Paris'.
12. Find all customers with a grade of 200 but not from cities where there are customers with a grade of 100.(use except)
13. Find all customers who have a salesman_id of 5001 or 5002 but exclude those from cities where there are customers with a grade of 300.