**The laboratory work 2**

**SQL queries practice**

**SQL aggregate functions**

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a SQL statement to find the total purchase amount of all orders.
2. Write a SQL statement to find the average purchase amount of all orders.

customer\_id | cust\_name | city | grade | salesman\_id

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 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 | | 5005

1. Write a SQL statement know how many customer have listed their names.

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a SQL statement to get the maximum purchase amount of all the orders.

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a SQL statement to get the minimum purchase amount of all the orders.

Sample table: salesman

salesman\_id | name | city | commission

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 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

 5007 | Paul Adam | Rome | 0.13

 5003 | Lauson Hen | San Jose | 0.12

**SQL JOINS**

Sample table: customer

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 | | 5005

1. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.

Sample table: orders

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

Sample table: customer

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 | | 5005

1. Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders which order amount between 500 and 2000.

**SQL Subqueries**

**Sample table: Salesman**

salesman\_id name city commission

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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 San Jose 0.12

5007 Paul Adam Rome 0.13

**Sample table: Orders**

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- -----------

70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a query to display all the orders from the orders table issued by the salesman 'Paul Adam'.

**Sample table: Salesman**

salesman\_id name city commission

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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 San Jose 0.12

5007 Paul Adam Rome 0.13

**Sample table: Orders**

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- -----------

70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a query to display all the orders for the salesman who belongs to the city London

**Sample table: Salesman**

salesman\_id name city commission

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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 San Jose 0.12

5007 Paul Adam Rome 0.13

**Sample table: Orders**

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- -----------

70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. Write a query to find all the orders issued against the salesman who may works for customer whose id is 3007.