SPRINT 2 : QUERY DATA USING SQL (PRACTICE)

use stylecarz_db;

select * from salespersons;

```
39 •  select * from salespersons;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

salespersonid	salesperson_name	salesperson_city	commission_rate
1001	William	London	12
1002	Liam	SanJose	13
1003	Axelrod	NewYork	10
1004	James	London	11
1005	Fran	London	26
1007	Oliver	Barcelona	15
1008	John	London	0
1009	Charles	Florida	0
NULL	NULL	NULL	NULL

select * from customers;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerid	c_firstname	c_lastname	c_city	c_rating
2001	Anny	Hoffman	London	100
2002	Jenny	Giovanni	Rome	200
2003	Williams	Liu	San Jose	100
2004	Harry	Grass	Berlin	300
2005	John	Clemens	London	200
2006	Fanny	Cisneros	San Jose	200
2007	Jonathan	Pereira	Rome	300
NULL	NULL	NULL	NULL	NULL

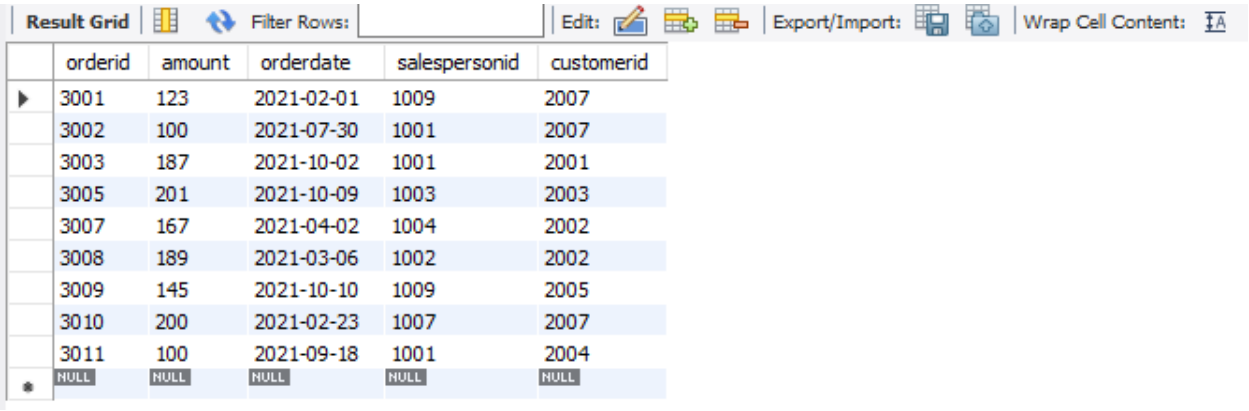
select * from orders;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

orderid	amount	orderdate	salespersonid	customerid
3001	123	2021-02-01	1009	2007
3002	100	2021-07-30	1001	2007
3003	187	2021-10-02	1001	2001
3005	201	2021-10-09	1003	2003
3007	167	2021-04-02	1004	2002
3008	189	2021-03-06	1002	2002
3009	145	2021-10-10	1009	2005
3010	200	2021-02-23	1007	2007
3011	100	2021-09-18	1001	2004
NULL	NULL	NULL	NULL	NULL

CREATE TABLE IF NOT EXISTS orders_bkp select * from orders;

select * from orders_bkp ;

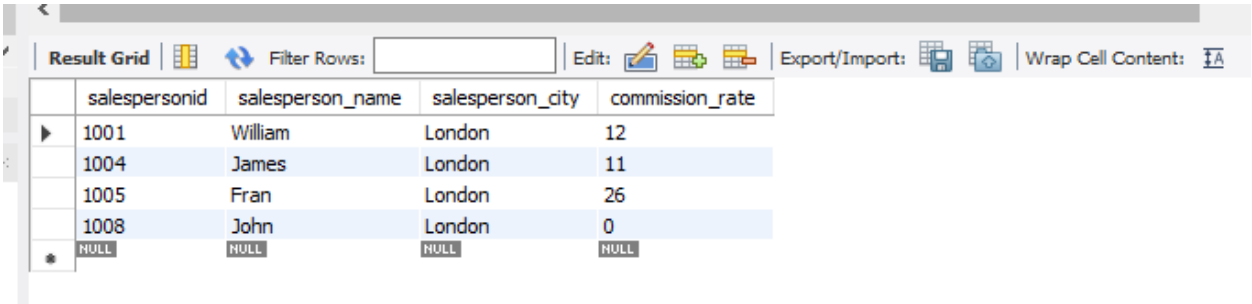


orderid	amount	orderdate	salespersonid	customerid
3001	123	2021-02-01	1009	2007
3002	100	2021-07-30	1001	2007
3003	187	2021-10-02	1001	2001
3005	201	2021-10-09	1003	2003
3007	167	2021-04-02	1004	2002
3008	189	2021-03-06	1002	2002
3009	145	2021-10-10	1009	2005
3010	200	2021-02-23	1007	2007
3011	100	2021-09-18	1001	2004
NULL	NULL	NULL	NULL	NULL

-- DSPT_8_C2_S2_Practice

/* TASK 1 : Extract the details of salesperson who are selling cars in London */

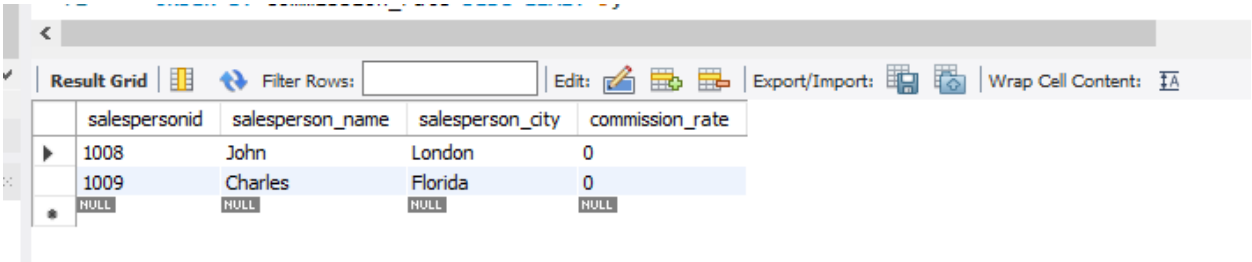
```
SELECT * FROM salespersons
WHERE salesperson_city='London';
```



salespersonid	salesperson_name	salesperson_city	commission_rate
1001	William	London	12
1004	James	London	11
1005	Fran	London	26
1008	John	London	0
NULL	NULL	NULL	NULL

/* TASK 2 : Extract the details of salesperson who having the commission rate 0 */

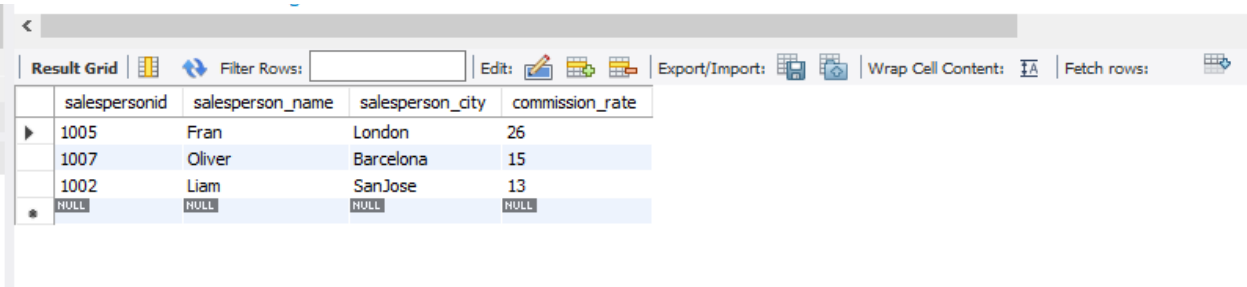
```
SELECT * FROM salespersons
WHERE commission_rate=0;
```



salespersonid	salesperson_name	salesperson_city	commission_rate
1008	John	London	0
1009	Charles	Florida	0
NULL	NULL	NULL	NULL

/* TASK 3 : Extract the details of salesperson who are top three commission rate holders */

```
SELECT * FROM  salespersons
ORDER BY commission_rate DESC
LIMIT 3;
```



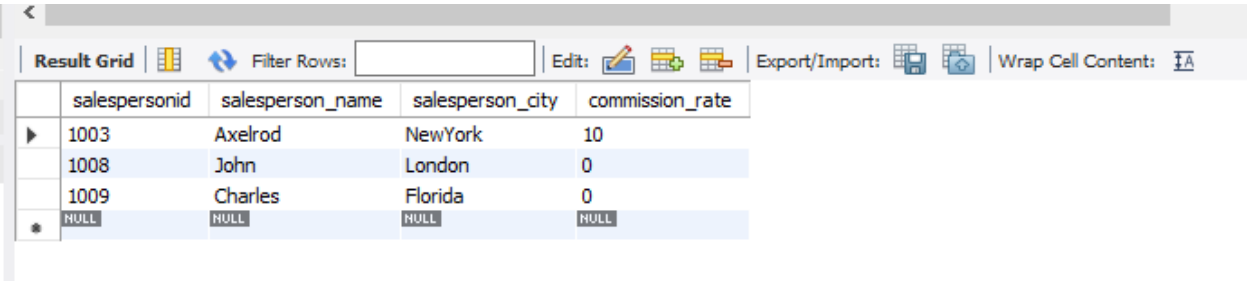
salespersonid	salesperson_name	salesperson_city	commission_rate
1005	Fran	London	26
1007	Oliver	Barcelona	15
1002	Liam	SanJose	13
NULL	NULL	NULL	NULL

/* TASK 4 : Extract the details of salesperson who are having commissiong rate having commissiong rate less than average of commission rate*/

```
SELECT avg(commission_rate) FROM salespersons;
```

avg(commission_rate)
10.8750

```
SELECT * FROM salespersons WHERE commission_rate < 10.8750;
```

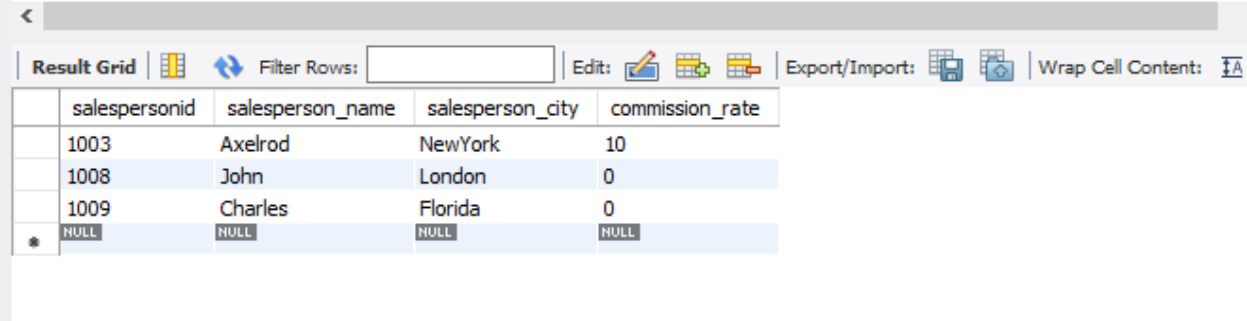


salespersonid	salesperson_name	salesperson_city	commission_rate
1003	Axelrod	NewYork	10
1008	John	London	0
1009	Charles	Florida	0
NULL	NULL	NULL	NULL

```
-- or
select @avgr:=avg(commission_rate) from salespersons;
```

@avgr:=avg(commission_rate)
10.8750

SELECT * FROM salespersons WHERE commission_rate < @avgr;



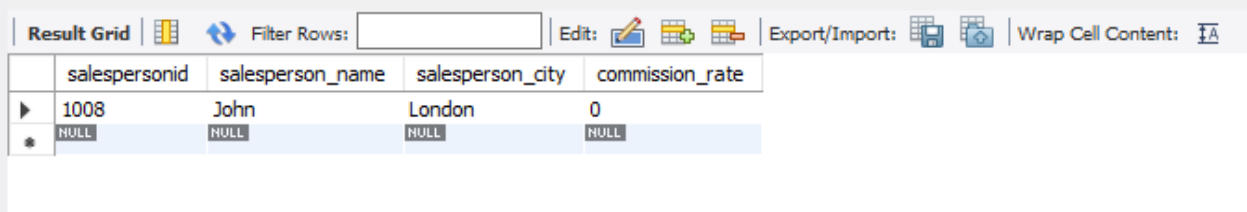
salespersonid	salesperson_name	salesperson_city	commission_rate
1003	Axelrod	NewYork	10
1008	John	London	0
1009	Charles	Florida	0
NULL	NULL	NULL	NULL

/* TASK 5 : Extract the details of salesperson who are selling cars in London and having commissiong rate having commissiong rate less than average of commission rate. (Write two queries)*/

SELECT avg(commission_rate) FROM salespersons;

@avgr:=avg(commission_rate)
10.8750

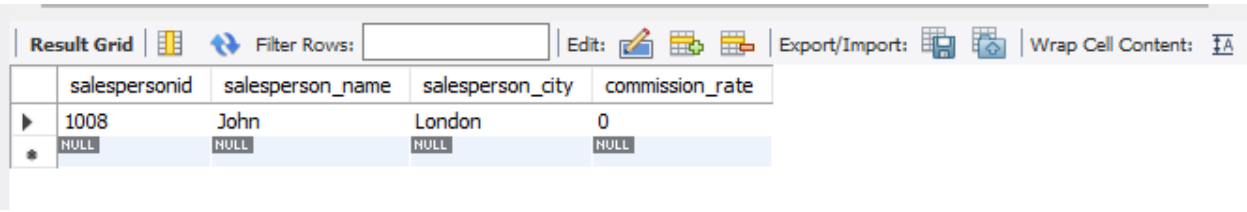
SELECT *FROM salespersons WHERE salesperson_city='LONDON' AND commission_rate< 10.8750;



salespersonid	salesperson_name	salesperson_city	commission_rate
1008	John	London	0
NULL	NULL	NULL	NULL

-- OR

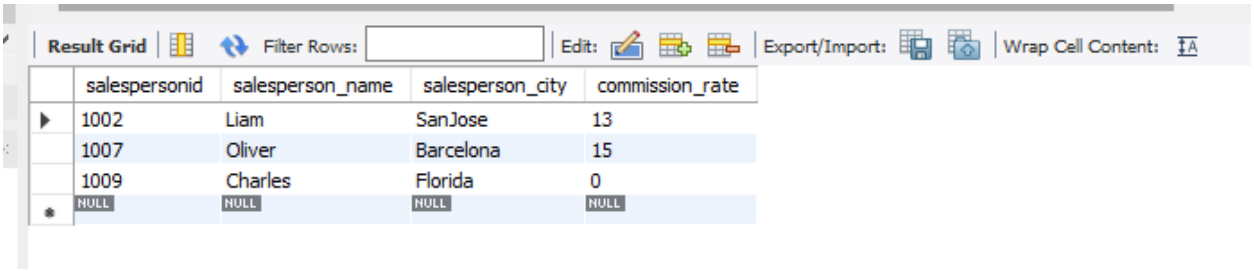
SELECT *FROM salespersons WHERE salesperson_city='LONDON' AND commission_rate< @avgr ;



salespersonid	salesperson_name	salesperson_city	commission_rate
1008	John	London	0
NULL	NULL	NULL	NULL

/* TASK 6 : Extract the details of salesperson who are in Barcelona,Florida,SanJose*/

SELECT * FROM salespersons WHERE salesperson_city IN ('Barcelona','Florida','SanJose');

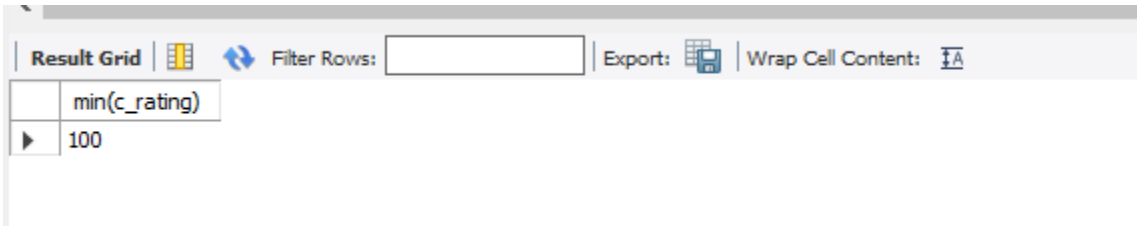


Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

salespersonid	salesperson_name	salesperson_city	commission_rate
1002	Liam	SanJose	13
1007	Oliver	Barcelona	15
1009	Charles	Florida	0
NULL	NULL	NULL	NULL

/* TASK 7 : Extract the list of salesperson whose rating are lowest. (Write two queries) */

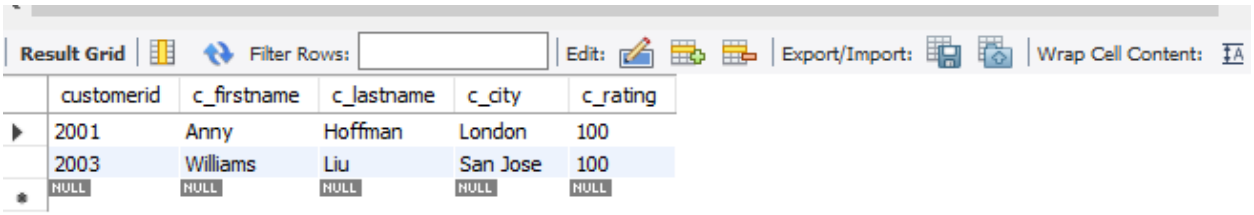
SELECT min(c_rating) FROM customers;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

min(c_rating)
100

select * from customers where c_rating=100;

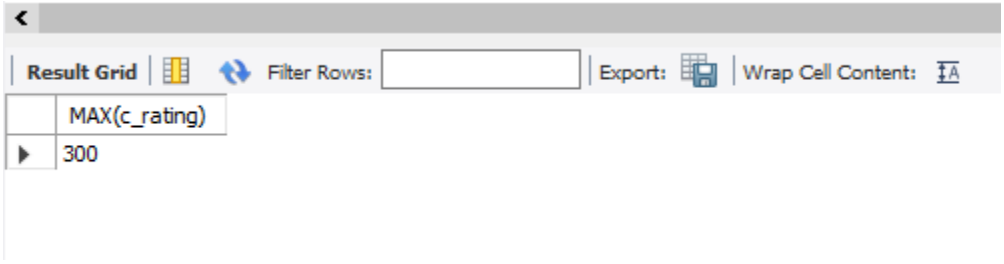


Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerid	c_firstname	c_lastname	c_city	c_rating
2001	Anny	Hoffman	London	100
2003	Williams	Liu	San Jose	100
NULL	NULL	NULL	NULL	NULL

/* TASK 8 : Extract the list of salesperson who having highest commission rating. (Write two queries) */

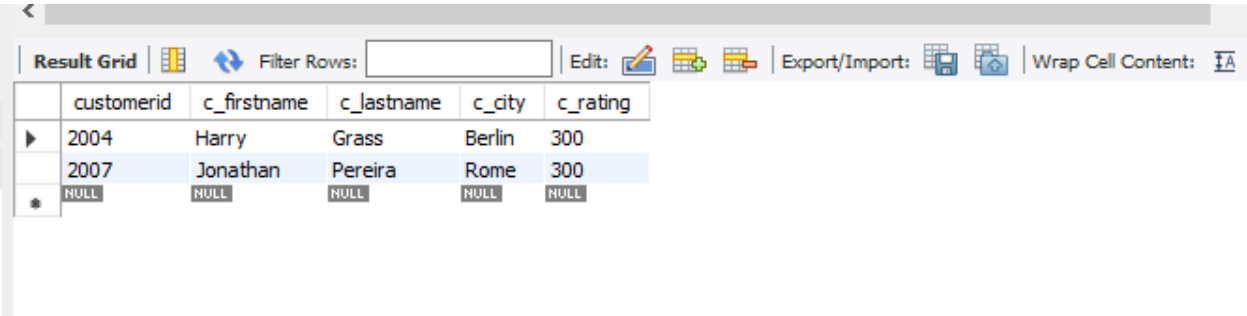
SELECT MAX(c_rating) FROM customers;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

MAX(c_rating)
300

SELECT * FROM customers WHERE c_rating=300;

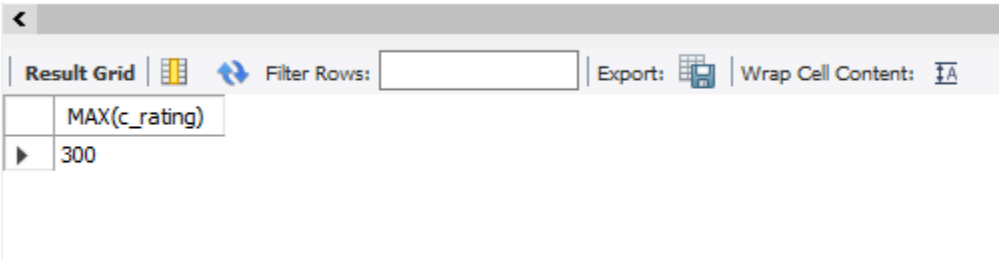


Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerid	c_firstname	c_lastname	c_city	c_rating
2004	Harry	Grass	Berlin	300
2007	Jonathan	Pereira	Rome	300
NULL	NULL	NULL	NULL	NULL

/* TASK 9 : Extract list of city where costumers having highest commission rating. . (Write two queries) */

SELECT MAX(c_rating) FROM customers;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

MAX(c_rating)
300

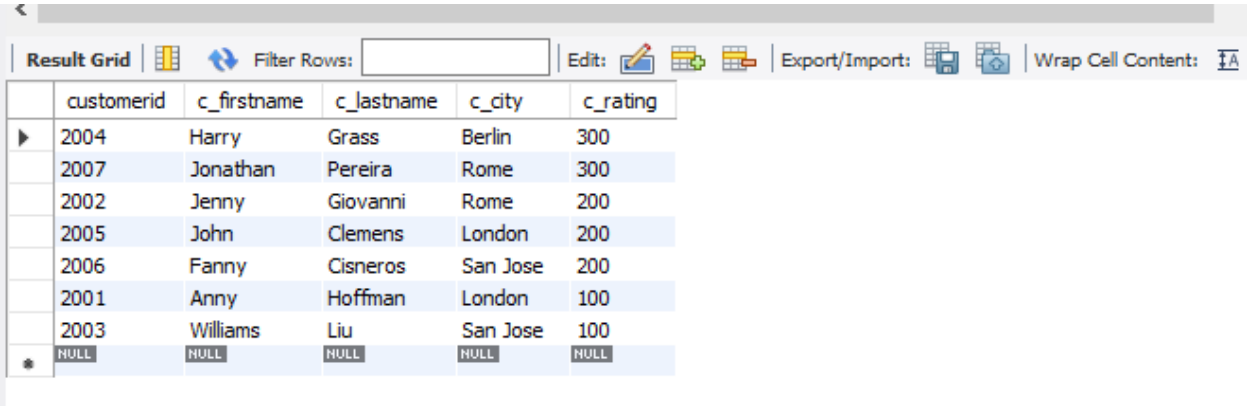
SELECT c_city,c_rating FROM customers WHERE c_rating=300;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

c_city	c_rating
Berlin	300
Rome	300

/* TASK 10 : Extract a report of costumers details with ratings arranged from highest to lowest */

SELECT * FROM customers ORDER BY c_rating DESC;



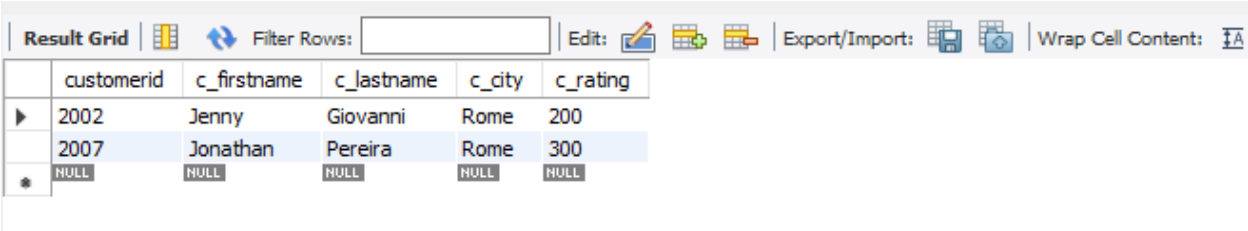
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerid	c_firstname	c_lastname	c_city	c_rating
2004	Harry	Grass	Berlin	300
2007	Jonathan	Pereira	Rome	300
2002	Jenny	Giovanni	Rome	200
2005	John	Clemens	London	200
2006	Fanny	Cisneros	San Jose	200
2001	Anny	Hoffman	London	100
2003	Williams	Liu	San Jose	100
NULL	NULL	NULL	NULL	NULL

/* TASK 11 : Extract the list of costumers who have names starting with the letter "J"

and having the third letter as "n"*/

SELECT * FROM customers where c_firstname LIKE 'J_n%';



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerid	c_firstname	c_lastname	c_city	c_rating
2002	Jenny	Giovanni	Rome	200
2007	Jonathan	Pereira	Rome	300
NULL	NULL	NULL	NULL	NULL

/* TASK 12 : What are maximum and average sale amounts */

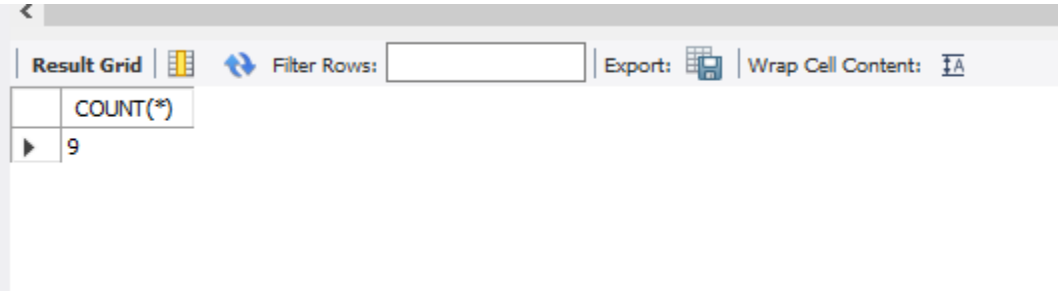
SELECT AVG(amount),max(amount) FROM orders;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

AVG(amount)	max(amount)
156.8889	201

/* TASK 13 : What is the total number of order placed? Refer the orders_bkp table */

SELECT COUNT(*) FROM orders_bkp;



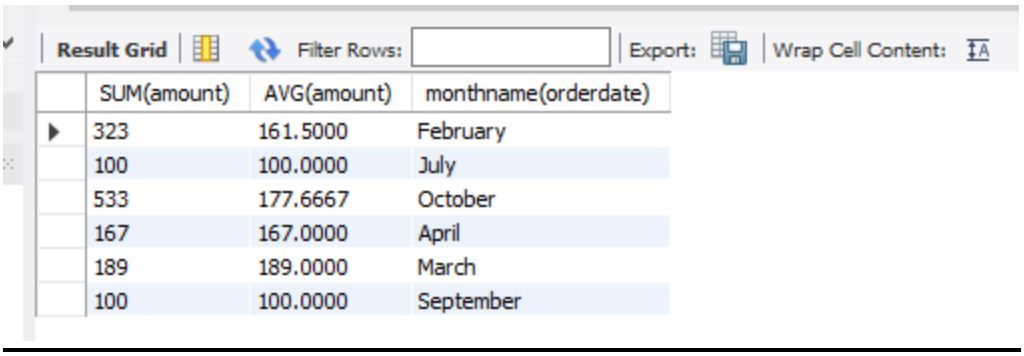
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

COUNT(*)
9

/* TASK 14 : Extract the total and average sales amount for each month. Use group by clause*/

SELECT SUM(amount), AVG(amount),monthname(orderdate) FROM orders

GROUP BY monthname(orderdate);



SUM(amount)	AVG(amount)	monthname(orderdate)
323	161.5000	February
100	100.0000	July
533	177.6667	October
167	167.0000	April
189	189.0000	March
100	100.0000	September