

```

271      (select sum(amount) as totamount , 1 as ind from payments);
272
273 • select TotalSalesAmount-totamount from totalsal join totamountreceived using(ind);
274
275
276      /*1. Find the top 10 customers who have placed the most orders. Display customer name and the count of orders placed.*/
277
278 • with top10_cte as
279      (select

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	TotalSalesAmount-totamount
▶	750351.38

```

243
246 -- productline wise least order countries
247 • select p.productLine,
248         o.country,
249         count(od.orderNumber) as tot ,
250         first_value(o.country) over(partition by p.productLine order by count(od.orderNumber)) as least_orders_country from offices o
251
252 left join employees e on o.officeCode = e.officeCode
253 left join customers c on e.employeeNumber = c.salesrepemployeenumber
254 left join orders od on c.customernumber = od.customernumber
255 left join orderdetails odt on od.orderNumber = odt.orderNumber
256 left join products p on odt.productCode = p.productCode
257 where p.productLine is not null
258 group by 1,2
259 order by 1, tot ;
260
261

```

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

	productLine	country	tot	least_orders_country
▶	Classic Cars	Japan	38	Japan
	Classic Cars	Australia	110	Japan
	Classic Cars	UK	178	Japan
	Classic Cars	France	341	Japan
	Classic Cars	USA	343	Japan
	Motorcycles	Japan	18	Japan

Result 15 x

Result Grid





Form Editor

Read On

```

231
232
233 -- total volume of sales
234 • select sum(quantityordered) as volume_of_sales from orderdetails;
235
236 -- countrywise sales
237 • select o.country, sum(odt.quantityOrdered * odt.priceEach) as TotalSales from offices o
238 left join employees e on o.officocode = e.officeCode
239 left join customers c on e.employeeNumber = c.salesrepemployeenumber
240 left join orders od on c.customernumber = od.customernumber
241 left join orderdetails odt on od.orderNumber = odt.orderNumber
242 left join products p on odt.productCode = p.productCode
243 group by 1
244 order by 2 desc;
245
246 -- productline wise least order countries

```

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

	volume_of_sales
--	-----------------

▶	105516
---	--------

```


220
221 -- 11. Employee Performance:
222 • SELECT e.employeeNumber, e.lastName, e.firstName, COUNT(o.orderNumber) AS TotalOrders, SUM(od.quantityOrdered * od.priceEach) AS TotalSales
223 FROM Employees e
224 left join customers c on e.employeeNumber = c.salesrepEmployeeNumber
225 LEFT JOIN Orders o ON c.customerNumber = o.customerNumber
226 LEFT JOIN OrderDetails od ON o.orderNumber = od.orderNumber
227 where jobtitle = 'Sales Rep'
228 GROUP BY e.employeeNumber, e.lastName, e.firstName
229 order by TotalSales desc;
230
231
232
233 -- total volume of sales
234 • select sum(quantityordered) as volume_of_sales from orderdetails;

```

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

	employeeNumber	lastName	firstName	TotalOrders	TotalSales
▶	1370	Hernandez	Gerard	396	1258577.81
	1165	Jennings	Leslie	331	1081530.54
	1401	Castillo	Pamela	272	868220.55
	1501	Bott	Larry	236	732096.79
	1504	Jones	Barry	220	704853.91
	1323	Vanauf	George	211	669377.05

Result 13 x

 Read O



215 -- 10. Order Fulfillment Time:

216 • SELECT AVG(DATEDIFF(o.shippedDate, o.orderDate)) AS AverageFulfillmentTime

217 FROM Orders o

218 WHERE o.shippedDate IS NOT NULL;

219

220

221 -- 11. Employee Performance:

222 • SELECT e.employeeNumber, e.lastName, e.firstName, COUNT(o.orderNumber) AS TotalOrders, SUM(o.totalSales) AS TotalSales

223 FROM Employees e

224 left join customers c on e.employeeNumber = c.salesrepEmployeeNumber

225 LEFT JOIN Orders o ON c.customerNumber = o.customerNumber

226 LEFT JOIN OrderDetails od ON o.orderNumber = od.orderNumber

227 where jobtitle = 'Sales Rep'

228 GROUP BY e.employeeNumber, e.lastName, e.firstName

229 order by TotalSales desc;

230

231

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

AverageFulfillmentTime

3.7564

```

209  -- shipment succes rate
210
211  • select round((
212      (select count(status) from orders where status = 'shipped') / count(status))*100 ,2) as succesful_shipment_rate
213  from orders;
214
215  -- 10. Order Fulfillment Time:
216  • SELECT AVG(DATEDIFF(o.shippedDate, o.orderDate)) AS AverageFulfillmentTime
217  FROM Orders o
218  WHERE o.shippedDate IS NOT NULL;
219
220
221  -- 11. Employee Performance:
222  • SELECT e.employeeNumber, e.lastName, e.firstName, COUNT(o.orderNumber) AS TotalOrders, SUM(od.quantityOrdered * od.priceEach) AS

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	succesful_shipment_rate
--	-------------------------

▶	92.94
---	-------

-- 8. Product Line Performance:

```
SELECT pl.productLine, SUM(od.quantityOrdered * od.priceEach) AS TotalSales
FROM ProductLines pl
JOIN Products p ON pl.productLine = p.productLine
JOIN OrderDetails od ON p.productCode = od.productCode
GROUP BY pl.productLine
order by TotalSales desc;
```

-- shipment succes rate

```
select round((
    (select count(status) from orders where status = 'shipped') / count(status))*100 ,2
from orders;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	productLine	TotalSales
▶	Classic Cars	3853922.49
	Vintage Cars	1797559.63
	Motorcycles	1121426.12
	Trucks and Buses	1024113.57
	Planes	954637.54
	Ships	663998.34

Result 10



Output

192

193 -- 7. Top Customers by Revenue:

194 • SELECT c.customerNumber, c.customerName, SUM(p.amount) AS TotalPaid

195 FROM Customers c

196 JOIN Payments p ON c.customerNumber = p.customerNumber

197 GROUP BY c.customerNumber, c.customerName

198 ORDER BY TotalPaid DESC

199 LIMIT 5;

200

201 -- 8. Product Line Performance:

202 • SELECT pl.productLine, SUM(od.quantityOrdered \* od.priceEach) AS TotalSales

203 FROM ProductLines pl

204 JOIN Products p ON pl.productLine = p.productLine

205 JOIN OrderDetails od ON p.productCode = od.productCode

206 GROUP BY pl.productLine

207 order by TotalSales desc;

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:



	customerNumber	customerName	TotalPaid
▶	141	Euro + Shopping Channel	715738.98
	124	Mini Gifts Distributors Ltd.	584188.24
	114	Australian Collectors, Co.	180585.07
	151	Muscle Machine Inc	177913.95
	148	Dragon Souvenirs, Ltd.	156251.03



```

153 ORDER BY Year;
154
155 -- sales growth by year 2004
156 • select ((sum(case when year(orderdate)=2004 then quantityOrdered * priceEach else 0 end)-
157          sum(case when year(orderdate)=2003 then quantityOrdered * priceEach else 0 end))/
158          sum(case when year(orderdate)=2003 then quantityOrdered * priceEach else 0 end)) * 100 as sales_growth
159 from ord;
160
161
162 -- sales growth rate quarter wise in particular year
163 • select year_,
164          quart,
165          ((-lag(tot_sales ,1) over() + tot_sales)/lag(tot_sales ,1) over()) * 100 as sales_growthrateby_quarter

```

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

	sales_growth
▶	36.129974

```
119
120
121 -- 5. Average Order Value (AOV):
122 • SELECT AVG(od.quantityOrdered * od.priceEach) AS AverageOrderValue
123 FROM OrderDetails od;
124
125
126 -- 6.sales growth rate
127
128 • drop view if exists Quart;
```

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

	AverageOrderValue
▶	3205.671098

```




108      -- 4. Customer Retention Rate:
109
110      with uniq_cust as
111      (select count(distinct(customernumber)) as unique_cust , 1 as ind from orders),
112
113      retention_cust as
114      (select count(customernumber) as retention_customers , 1 as ind from
115      (select customernumber, count(*) c from orders group by 1) a where c >1)
116
117      select retention_customers/unique_cust *100 as retentionrate from uniq_cust join retention_cust using(ind);
118
119

```

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

	retentionrate
▶	98.9796

```
99
100 -- 3. new Customers list or customers who havent placed any order:
101 • SELECT COUNT(DISTINCT c.customerNumber) AS NewCustomers
102 FROM Customers c
103 LEFT JOIN Orders o ON c.customerNumber = o.customerNumber
104 WHERE o.customerNumber IS NULL;
105
106
107
```

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


	NewCustomers
▶	24



```





92  -- Top Products by Sales:
93  • SELECT p.productCode, p.productName, SUM(od.quantityOrdered * od.priceEach) AS TotalSales
94  FROM Products p
95  JOIN OrderDetails od ON p.productCode = od.productCode
96  GROUP BY p.productCode, p.productName
97  ORDER BY TotalSales DESC
98  LIMIT 5;
99
100  -- 3. new Customers list or customers who havent placed any order:
101  • SELECT COUNT(DISTINCT c.customerNumber) AS NewCustomers

```

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

	productCode	productName	TotalSales
▶	S18_3232	1992 Ferrari 360 Spider red	276839.98
	S12_1108	2001 Ferrari Enzo	190755.86
	S10_1949	1952 Alpine Renault 1300	190017.96
	S10_4698	2003 Harley-Davidson Eagle Drag Bike	170686.00
	S12_1099	1968 Ford Mustang	161531.48

```
86 -----
87 ----- KPI and insights -----
88 -- Total Sales Amount:
89 • SELECT SUM(od.quantityOrdered * od.priceEach) AS TotalSalesAmount
90 FROM OrderDetails od;
91
92 -- Top Products by Sales:
```

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

	TotalSalesAmount
▶	9604190.61