




Implementation in MYSQL

Query 1 : List all the customer names and their corresponding order IDs from the sales orders.

```
SELECT c.name, s.order_id
FROM customer c
JOIN salesorder s ON c.c_id = s.c_id;
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Export: 			
	name	order_id	
<input type="checkbox"/>	Paddy Ruppelin	1	
<input type="checkbox"/>	Sharona Foulcher	2	
<input type="checkbox"/>	Agnella Pinnere	3	
<input type="checkbox"/>	Ellswerth Yellowley	4	
<input type="checkbox"/>	Emile Gery	5	
<input type="checkbox"/>	Linette Bonallick	6	
<input type="checkbox"/>	Magda Ferne	7	
<input type="checkbox"/>	Jerrine Tyne	8	
<input type="checkbox"/>	Ellswerth Yellowley	9	
<input type="checkbox"/>	Meier Wyre	10	
<input type="checkbox"/>	Ellswerth Yellowley	11	
<input type="checkbox"/>	Magda Ferne	12	
<input type="checkbox"/>	Meier Wyre	13	
<input type="checkbox"/>	Anabel Ferres	14	
<input type="checkbox"/>	Brose Sales	15	
<input type="checkbox"/>	Euphemia Money	16	
<input type="checkbox"/>	Ivett Gethings	17	
<input type="checkbox"/>	Emile Gery	18	
<input type="checkbox"/>	Alikee Halsted	19	
<input type="checkbox"/>	Anabel Ferres	20	

Query 2 : Get a list of all customers, along with their payment IDs, even if they haven't made a payment yet.

```
SELECT c.name, p.payment_id
FROM customer c
LEFT JOIN payments p ON c.c_id = p.c_id;
```

Result Grid



Filter Rows:



Search



Export:



	name	payment_id	
	Newton Harnor	20	
	Newton Harnor	9	
	Tomaso Voisey	NULL	
	Margery Glover	19	
	Ellswerth Yellowley	NULL	
	Brose Sales	NULL	
	Alastair Pauluzzi	13	
	Alastair Pauluzzi	12	
	Alastair Pauluzzi	5	
	Paddy Ruppelin	NULL	
	Emile Gery	10	
	Anabel Ferres	7	
	Euphemia Money	6	
	Meier Wyre	1	
	Jerrine Tyne	11	
	Jerrine Tyne	4	
	Ivett Gethings	2	
	Alikee Halsted	17	
	Alikee Halsted	8	
	Magda Ferne	16	
	Magda Ferne	3	
	Agnella Pinnere	NULL	
	Chris Steels	NULL	
	Sharona Foulcher	15	
	Bunny Hans	18	
	Linette Bonallick	14	



Query 3 : List all products and include any purchase order details (if available), showing the product name and quantity purchased.

```
SELECT p.product_name, pod.quantity
FROM product p
RIGHT JOIN purchase_order_detail pod ON p.Product_id = pod.Product_id;
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Export: 			
	product_name	quantity	
	Fox	8	
	2500 Club Coupe	1	
	62	7	
	Amanti	11	
	Amanti	9	
	Expedition	10	
	T100	15	
	Tacoma	5	
	62	14	
	T100	15	
	Fox	9	
	E350	6	
	330	10	
	Ram 1500	1	
	Amanti	9	
	T100	9	
	Elise	6	
	Ram Wagon B250	10	
	CC	13	
	2500 Club Coupe	14	
	Fox	11	
	Tracker	6	
	Cherokee	9	
	Supra	7	
	Expedition	5	
	62	11	
	Tacoma	11	
	CR-X	7	




Query 4 : Find all product names and their quantities from both purchase order details and sales order details.

```
SELECT p.product_name, pod.quantity
FROM product p
JOIN purchase_order_detail pod ON p.Product_id = pod.Product_id
UNION
SELECT p.product_name, sod.quantity
FROM product p
JOIN sales_order_detail sod ON p.Product_id = sod.Product_id;
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Export: 			
	product_name	quantity	
	Fox	8	
	2500 Club Coupe	1	
	62	7	
	Amanti	11	
	Amanti	9	
	Expedition	10	
	T100	15	
	Tacoma	5	
	62	14	
	Fox	9	
	E350	6	
	330	10	
	Ram 1500	1	
	T100	9	
	Elise	6	
	Ram Wagon B250	10	
	CC	13	
	2500 Club Coupe	14	
	Fox	11	
	Tracker	6	
	Cherokee	9	
	Supra	7	
	Expedition	5	
	62	11	
	Tacoma	11	
	CR-X	7	
	330	20	
	T100	10	





Query 5 : Find all the customers who have placed orders with a total amount greater than 500\$.

```
SELECT c.name, c.email
FROM customer c
WHERE c.c_id IN (
    SELECT so.c_id
    FROM SalesOrder so
    JOIN sales_order_detail sod ON so.order_id = sod.order_id
    GROUP BY so.c_id
    HAVING SUM(sod.quantity * sod.unit_price) > 500
);
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Export: 			
	name	email	
<input type="checkbox"/>	Ellswerth Yellowley	ellswerth.yellowley@yahoo.com	
<input type="checkbox"/>	Brose Sales	brose.sales@juno.com	
<input type="checkbox"/>	Paddy Ruppelin	paddy.ruppelin@hotmail.com	
<input type="checkbox"/>	Emile Gery	emile.gery@yahoo.com	
<input type="checkbox"/>	Anabel Ferres	anabel.ferres@yahoo.com	
<input type="checkbox"/>	Euphemia Money	euphemia.money@hotmail.fr	
<input type="checkbox"/>	Meier Wyre	meier.wyre@yahoo.com	
<input type="checkbox"/>	Jerrine Tyne	jerrine.tyne@hotmail.com	
<input type="checkbox"/>	Ivett Gethings	ivett.gethings@msn.com	
<input type="checkbox"/>	Alikee Halsted	alikee.halsted@yahoo.com	
<input type="checkbox"/>	Magda Ferne	magda.ferne@shaw.ca	
<input type="checkbox"/>	Sharona Foulcher	sharona.foulcher@gmail.com	





Query 6 : Find the names of customers who have made a payment greater than the average payment amount.

```
SELECT c.name
FROM customer c
WHERE c.c_id IN (
    SELECT p.c_id
    FROM payments p
    WHERE p.amount > (SELECT AVG(amount) FROM payments)
);
```

Result Grid				Filter Rows:	 Search	Export: 
	name					
	Alastair Pauluzzi					
	Jerrine Tyne					
	Magda Ferne					
	Sharona Foulcher					

Query 7 : Find the total number of orders placed by each customer and show only those who have placed more than 2 orders.

```
SELECT c.name, COUNT(s.order_id) AS Total_Orders
FROM customer c
JOIN salesorder s ON c.c_id = s.c_id
GROUP BY c.name
HAVING COUNT(s.order_id) > 2;
```

Result Grid				Filter Rows:	 Search	Export: 
	name	Total_Orders				
	Ellswerth Yellowley	3				

Query 8 : List the total revenue generated from each product (unit price * quantity) in all sales orders.

```
SELECT p.product_name, SUM(sod.quantity * sod.unit_price) AS Total_Revenue
FROM product p
JOIN sales_order_detail sod ON p.Product_id = sod.Product_id
GROUP BY p.product_name;
```

Result Grid

Filter Rows:



Search




Export:



	product_name	Total_Revenue	
	E350	2050	
	Ram Wagon B250	1740	
	T100	3116	
	Tracker	3458	
	Cherokee	2502	
	CR-X	2988	
	62	2454	
	Ram 1500	1970	
	330	2686	
	2500	2214	
	Tacoma	3342	
	XLR	1658	
	Wrangler	2030	
	Expedition	3296	
	2500 Club Coupe	2730	
	Amanti	2464	
	CC	860	
	Elise	1686	
	Supra	594	
	Fox	286	




Query 9 : Find the names of all customers who have made at least one order that required a delivery.

```
SELECT c.name
FROM customer c
WHERE EXISTS (
  SELECT 1
  FROM salesorder s
  JOIN delivery d ON s.order_id = d.order_id
  WHERE s.c_id = c.c_id
);
```

Result Grid				Filter Rows:	<input type="text" value="Search"/>	Export: 
	name					
	Ellswerth Yellowley					
<input type="checkbox"/>	Brose Sales					
	Paddy Ruppelin					
<input type="checkbox"/>	Emile Gery					
	Anabel Ferres					
<input type="checkbox"/>	Euphemia Money					
	Jerrine Tyne					
<input type="checkbox"/>	Alikee Halsted					
	Magda Ferne					
<input type="checkbox"/>	Agnella Pinnere					
	Sharona Foulcher					
<input type="checkbox"/>	Linette Bonallick					

Query 10 : Retrieve the list of customers who have not made any payments yet.

```
SELECT c.name, c.email
FROM customer c
WHERE NOT EXISTS (
  SELECT 1
  FROM payments p
  WHERE p.c_id = c.c_id
);
```

Result Grid   Filter Rows: <input type="text" value="Search"/> Export: 			
	name	email	
	Tomaso Voisey	tomaso.voisey@yahoo.co.uk	
	Ellswerth Yellowley	ellswerth.yellowley@yahoo.com	
	Brose Sales	brose.sales@juno.com	
	Paddy Ruppelin	paddy.ruppelin@hotmail.com	
	Agnella Pinnere	agnella.pinnere@hotmail.com	
	Chris Steels	chris.steels@yahoo.com	