**QUERY SEQUENCE:**

1. **SELECT**
2. **FROM**
3. **JOIN**
4. **ON**
5. **WHERE**
6. **GROUP BY**
7. **HAVING**
8. **ORDER BY**

**EMPLOYEE REPORT: SALARY BETWEEN 5000 AND 10000**

SELECT \* FROM employees WHERE salary between 5000 and 10000;

**EMPLOYEE REPORT: TENURE OF EMPLOYEE**

SELECT

emp\_id,

emp\_name,

hire\_date,

julianday(hire\_date) [JDNum Hiring Date],

julianday(date()) [JDNum Today],

ROUND((julianday(date()) - julianday(hire\_date))/365.25, 0) [Diff in Years]

FROM employees;

SELECT

emp\_id,

emp\_name,

hire\_date,

ROUND((julianday(date()) - julianday(hire\_date))/365.25, 0) [Diff in Years]

FROM employees;

SELECT

emp\_id,

emp\_name,

hire\_date,

ROUND((julianday(date()) - julianday(hire\_date))/365.25, 0) [Tenure (in Years)]

FROM employees;

**-- SALES & QUANTITY BY SUPPLIER**

SELECT

p.supplier\_id,

s.supplier\_name,

SUM(o.units) [Total Qty],

SUM(o.units \* p.price) [Total Sales (CAD)]

FROM products p

JOIN order\_details o

ON p.product\_id = o.product\_id

JOIN suppliers s

ON p.supplier\_id = s.supplier\_id

GROUP BY p.supplier\_id

ORDER BY [Total Sales (CAD)] DESC;

**-- SALES & QUANTITY BY PRODUCT AND SUPPLIER**

SELECT

s.supplier\_id,

s.supplier\_name,

p.product\_id,

p.product\_name,

SUM(o.units) [Total Qty],

SUM(o.units \* p.price) [Total Sales (CAD)]

FROM products p

JOIN order\_details o

ON p.product\_id = o.product\_id

JOIN suppliers s

ON p.supplier\_id = s.supplier\_id

GROUP BY s.supplier\_id,

s.supplier\_name,

p.product\_id,

p.product\_name

ORDER BY s.supplier\_id, p.product\_id;

**-- (unique key) -- whenever you will be multiple keys/columns to keep the uniqueness within a table, that is called "composite key"**

**-- unqiue key --> COMPOSITE KEY(order\_id, product\_id)**

SELECT \* FROM order\_details Order by order\_id, product\_id

**-- SALES & QTY BY CATEGORY**

SELECT

p.category\_id,

c.category\_name,

SUM(o.units) [Total Qty.],

SUM(o.units \* p.price) [Total Sales]

FROM products p

JOIN order\_details o

ON p.product\_id = o.product\_id

JOIN categories c

ON p.category\_id = c.category\_id

GROUP BY p.category\_id;

**-- SALES BY YEAR**

SELECT

substr(order\_date, 1, 4) [Year],

SUM(ORDER\_VALUE) [Total Sales]

FROM orders

GROUP BY substr(order\_date, 1, 4);

**-- SALES BY YEAR & MONTH**

SELECT

substr(order\_date, 1, 4) [Year],

substr(order\_date, 6, 2) [Month],

SUM(ORDER\_VALUE) [Total Sales]

FROM orders

WHERE substr(order\_date, 6, 2) = '03'

GROUP BY substr(order\_date, 1, 4),

substr(order\_date, 6, 2);

**-- TOTAL PUCHASES BY CUSTOMER**

select

c.cust\_id,

c.cust\_name,

sum(order\_value) [Total Purcahses]

from orders o

join customers c

where o.cust\_id=c.cust\_id

group by c.cust\_id,

c.cust\_name

order by 3 desc;

**-- TOTAL SALES BY CITY**

SELECT

c.city,

SUM(o.order\_value) [Total Sales]

FROM customers c

JOIN orders o

ON c.cust\_id = o.cust\_id

GROUP BY c.city

ORDER BY 2 DESC;

**-- TOTAL PUCHASES BY CUSTOMER and YEAR**

select

c.cust\_id,

c.cust\_name,

substr(order\_date, 1, 4) [Year],

sum(order\_value) [Total Purcahses]

from orders o

join customers c

where o.cust\_id=c.cust\_id

group by c.cust\_id,

c.cust\_name,

substr(order\_date, 1, 4)

order by 1 asc, 3 asc;