**ASSIGNMENT-2**

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| --- | --- | --- |
| **Product** | | |
| **Product\_Id** | **Product\_Name** | **Product\_Price** |
| 1 | Television | 19000 |
| 2 | DVD | 3600 |
| 3 | Washing Machine | 7600 |
| 4 | Computer | 35900 |
| 5 | Ipod | 3210 |
| 6 | Panasonic Phone | 2100 |
| 7 | Chair | 360 |
| 8 | Table | 490 |
| 9 | Sound System | 12050 |
| 10 | Home Theatre | 19350 |

|  |  |
| --- | --- |
| **Customer** | |
| **Customer\_Id** | **Customer\_Name** |
| 1 | John |
| 2 | Smith |
| 3 | Ricky |
| 4 | Walsh |
| 5 | Stefen |
| 6 | Fleming |
| 7 | Thomson |
| 8 | David |

|  |  |  |  |
| --- | --- | --- | --- |
| **Order\_Details** | | | |
| **Order\_Detail\_Id** | **Order\_Id** | **Product\_Id** | **Quantity** |
| 1 | 1 | 3 | 1 |
| 2 | 1 | 2 | 3 |
| 3 | 2 | 10 | 2 |
| 4 | 3 | 7 | 10 |
| 5 | 3 | 4 | 2 |
| 6 | 3 | 5 | 4 |
| 7 | 4 | 3 | 1 |
| 8 | 5 | 1 | 2 |
| 9 | 5 | 2 | 1 |
| 10 | 6 | 5 | 1 |
| 11 | 7 | 6 | 1 |
| 12 | 8 | 10 | 2 |
| 13 | 8 | 3 | 1 |
| 14 | 9 | 10 | 3 |
| 15 | 10 | 1 | 1 |

|  |  |  |
| --- | --- | --- |
| **Order** | | |
| **Order\_Id** | **Customer\_Id** | **Ordered\_Date** |
| 1 | 4 | 10-Jan-05 |
| 2 | 2 | 10-Feb-06 |
| 3 | 3 | 20-Mar-05 |
| 4 | 3 | 10-Mar-06 |
| 5 | 1 | 5-Apr-07 |
| 6 | 7 | 13-Dec-06 |
| 7 | 6 | 13-Mar-08 |
| 8 | 6 | 29-Nov-04 |
| 9 | 5 | 13-Jan-05 |
| 10 | 1 | 12-Dep-2007 |

-- 1.Fetch all the Customer Details along with the product names that the customer has ordered.

select c.\*,p.Product\_Name

from Customer c

join orders o on c.Customer\_Id= o.Customer\_Id

join Order\_Details d on o.Order\_Id = d.Order\_Id

join Product p on d.Product\_Id = p.Product\_Id;

-- 2.Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty).

select o.Order\_Id,o.Ordered\_Date, sum(p.Product\_Price \* od.Quantity) as Total\_Price

from Orders o

join Order\_Details od on o.Order\_Id = od.Order\_Id

join Product p on od.Product\_Id = p.Product\_Id

group by o.Order\_Id,o.Ordered\_Date;

-- 3.Fetch the Customer Name, who has not placed any order

select c.Customer\_Name

from customer c

left join Orders o on c.customer\_Id = o.Customer\_Id

where o.Order\_Id is null;

-- 4.Fetch the Product Details without any order(purchase)

select p.\*

from Product p

left join Order\_Details od on p.Product\_Id = od.Product\_Id

where od.Order\_Detail\_Id is null;

-- 6.Fetch the Customer details, who has placed the first and last order

SELECT c.Customer\_Id, c.Customer\_Name, MIN(o.Ordered\_Date) AS First\_Order\_Date, MAX(o.Ordered\_Date) AS Last\_Order\_Date

FROM Customer c

JOIN Orders o ON c.Customer\_Id = o.Customer\_Id

GROUP BY c.Customer\_Id, c.Customer\_Name;

-- 7. Fetch the customer details , who has placed more number of orders

select c.\*,count(o.Order\_Id) as Total\_Orders

from Customer c

join Orders o on c.Customer\_Id = o.Customer\_Id

group by c.Customer\_Id,c.Customer\_Name

order by Total\_Orders desc

limit 1;

-- 8. Fetch the customer details, who has placed multiple orders in the same year

SELECT c.Customer\_Id, c.Customer\_Name, YEAR(o.Ordered\_Date) AS Order\_Year, COUNT(DISTINCT o.Order\_Id) AS Total\_Orders

FROM Customer c

JOIN Orders o ON c.Customer\_Id = o.Customer\_Id

GROUP BY c.Customer\_Id, c.Customer\_Name, Order\_Year

HAVING COUNT(DISTINCT o.Order\_Id) > 1;

-- 9. Fetch the name of the month, in which more number of orders has been placed

SELECT MONTHNAME(o.Ordered\_Date) AS Month\_Name, COUNT(\*) AS Total\_Orders

FROM Orders o

GROUP BY MONTHNAME(o.Ordered\_Date)

ORDER BY Total\_Orders DESC

LIMIT 1;

-- 10. Fetch the maximum priced Ordered Product

SELECT p.Product\_Name, p.Product\_Price

FROM Product p

JOIN Order\_Details od ON p.Product\_Id = od.Product\_Id

ORDER BY p.Product\_Price DESC

LIMIT 1;