**Assignment-2**

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

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |

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

SELECT c.Customer\_Id, c.Customer\_Name, p.Product\_Name

FROM Customer c

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

JOIN Order\_Details od ON o.Order\_Id = od.Order\_Id

JOIN Product p ON od.Product\_Id = p.Product\_Id;

1. 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 Order 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;

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

SELECT c.Customer\_Name

FROM Customer c

LEFT JOIN Order o ON c.Customer\_Id = o.Customer\_Id

WHERE o.Order\_Id IS NULL;

1. Fetch the Product Details without any order(purchase)

SELECT P.Product\_Name, P.Product\_Price

FROM Product P

LEFT JOIN Order\_Details OD ON P.Product\_Id = OD.Product\_Id

WHERE OD.Order\_Detail\_Id IS NULL;

1. Fetch the Customer name along with the total Purchase Amount

SELECT c.Customer\_Name, SUM(p.Product\_Price \* od.Quantity) AS Total\_Purchase\_Amount

FROM Customer c, Order o , Order\_Details od , Product p

WHERE c.Customer\_Id = o.Customer\_Id, o.Order\_Id = od.Order\_Id , od.Product\_Id = p.Product\_Id

GROUP BY c.Customer\_Name;

OR

SELECT

c.Customer\_Name,

SUM(p.Product\_Price \* od.Quantity) AS Total\_Purchase\_Amount

FROM

Customer c

JOIN

Order o ON c.Customer\_Id = o.Customer\_Id

JOIN

Order\_Details od ON o.Order\_Id = od.Order\_Id

JOIN

Product p ON od.Product\_Id = p.Product\_Id

GROUP BY

c.Customer\_Name;

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

SELECT

C.Customer\_Name,

MIN(O.Ordered\_Date) AS First\_Order\_Date,

MAX(O.Ordered\_Date) AS Last\_Order\_Date

FROM

Customer C

JOIN

Order O ON C.Customer\_Id = O.Customer\_Id

GROUP BY

C.Customer\_Name;

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

SELECT

C.Customer\_Name,

COUNT(O.Order\_Id) AS Number\_of\_Orders

FROM Customer C

JOIN

Order O ON C.Customer\_Id = O.Customer\_Id

GROUP BY

C.Customer\_Name

ORDER BY

Number\_of\_Orders DESC

LIMIT 1;

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

SELECT

C.Customer\_Name,

YEAR(O.Ordered\_Date) AS Order\_Year,

COUNT(O.Order\_Id) AS Number\_of\_Orders

FROM

Customer C

JOIN

Order O ON C.Customer\_Id = O.Customer\_Id

GROUP BY

C.Customer\_Name, Order\_Year

HAVING

COUNT(O.Order\_Id) > 1;

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

SELECT MONTHNAME(o.Ordered\_Date) AS Month\_Name, COUNT(o.Order\_Id) AS Number\_Of\_Orders

FROM Order o

GROUP BY Month\_Name

ORDER BY Number\_Of\_Orders DESC

LIMIT 1;

1. Fetch the maximum priced **Ordered Product**

SELECT P.Product\_Name, MAX(P.Product\_Price) AS Max\_Price

FROM Product P, Order\_Details OD

WHERE P.Product\_Id = OD.Product\_Id

GROUP BY P.Product\_Name;