

## Assignment 1

Q1.

### New Customers Acquired in June 2023

#### Business Problem:

The marketing team ran a campaign in June 2023 and wants to see how many new customers signed up during that period.

#### Fields to Retrieve:

- PARTY\_ID
- FIRST\_NAME
- LAST\_NAME
- EMAIL
- PHONE
- ENTRY\_DATE

```
SELECT p.PARTY_ID,  
       p.FIRST_NAME,  
       p.LAST_NAME,  
       pr.ROLE_TYPE_ID AS Role_Type,  
       cm.INFO_STRING AS EmailAddress,  
       t.CONTACT_NUMBER AS Phone,  
       p.CREATED_STAMP  
FROM PERSON p  
JOIN PARTY_ROLE pr ON p.PARTY_ID = pr.PARTY_ID  
LEFT JOIN PARTY_CONTACT_MECH pcm ON p.PARTY_ID = pcm.PARTY_ID  
LEFT JOIN CONTACT_MECH cm ON pcm.CONTACT_MECH_ID = cm.CONTACT_MECH_ID  
LEFT JOIN TELECOM_NUMBER t ON pcm.CONTACT_MECH_ID = t.CONTACT_MECH_ID  
WHERE pr.ROLE_TYPE_ID = 'CUSTOMER'  
      AND p.CREATED_STAMP BETWEEN '2023-06-01' AND '2023-06-30';
```

### Q2.List All Active Physical Products

#### Business Problem:

Merchandising teams often need a list of all physical products to manage logistics, warehousing, and shipping.

**Fields to Retrieve:**

- PRODUCT\_ID
- PRODUCT\_TYPE\_ID
- INTERNAL\_NAME

```
SELECT p.PRODUCT_ID,  
       pt.PRODUCT_TYPE_ID,  
       p.INTERNAL_NAME  
FROM PRODUCT p  
JOIN PRODUCT_TYPE pt ON p.PRODUCT_TYPE_ID = pt.PRODUCT_TYPE_ID  
WHERE pt.IS_PHYSICAL = 'Y';
```

Q 7.

```
SELECT  
    o.ORDER_ID,  
    o.grand_total AS TOTAL_AMOUNT,  
    opp.PAYMENT_METHOD_TYPE_ID AS PAYMENT_METHOD,  
    oi.EXTERNAL_ID AS SHOPIFY_ID  
FROM  
    ORDER_HEADER o  
JOIN ORDER_PAYMENT_PREFERENCE opp  
    ON o.ORDER_ID = opp.ORDER_ID -- Join to get payment method details  
JOIN ORDER_ITEM oi  
    ON o.ORDER_ID = oi.ORDER_ID  
WHERE  
    o.status_id = 'ORDER_CREATED' -- Filter for orders with 'ORDER_CREATED' status  
    AND o.order_type_id = 'SALES_ORDER'  
ORDER BY  
    o.ORDER_DATE DESC limit 10;
```

Q8.

```
SELECT
```

```

        o.ORDER_ID,
        o.STATUS_ID AS ORDER_STATUS,
        opp.STATUS_ID AS PAYMENT_STATUS ,
        s.STATUS_ID AS SHIPMENT_STATUS
FROM
    ORDER_HEADER o
JOIN ORDER_PAYMENT_PREFERENCE opp
    ON o.ORDER_ID = opp.ORDER_ID
JOIN SHIPMENT s
    ON o.ORDER_ID = s.PRIMARY_ORDER_ID
WHERE
    opp.STATUS_ID = 'PAYMENT_SETTLED'

```

Q9

```

SELECT
    HOUR(o.STATUS_DATETIME) AS HOUR,
    COUNT(o.ORDER_ID) AS TOTAL_ORDERS
FROM
    ORDER_STATUS o
WHERE
    o.STATUS_ID = 'ORDER_COMPLETED'
GROUP BY
    HOUR(o.STATUS_DATETIME)
ORDER BY
    HOUR(o.STATUS_DATETIME);

```