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## Report Dashboard

### Abstract Code 1

- Display form with below links to sections:
  - “Report 1 – Manufacturer's Product Report”
  - “Report 2 – Category Report”
  - “Report 3 – Actual versus Predicted Revenue for GPS units”
  - “Report 4 –Store Revenue by Year by State”
  - “Report 5 – Air Conditioners on Groundhog Day?”
  - “Report 6 – State with Highest Volume for each Category”
  - “Report 7 – Revenue by Population”

### Abstract Code 2

- Upon:
  - Click Report 1 – Manufacturer's Product Report– Jump to **Generate Manufacturer's Product** task.
  - Click Report 2 – Category Report– Jump to **Generate Category** task.
  - Click Report 3 – Actual versus Predicted Revenue for GPS units– Jump to **Generate Actual versus Predicted Revenue** for GPS Units task.
  - Click Report 4 –Store Revenue by Year by State– **Jump to Generate Store Revenue by Year and State** task.
  - Click Report 5 – Air Conditioners on Groundhog Day? – Jump to **Generate Air Conditioners on Groundhog Day** task.
  - Click Report 6 – State with Highest Volume for each Category– Jump to **Generate State with Highest Volume for each Category** task.
  - Click Report 7 – Revenue by Population– Jump to **Get Revenue by Population** task.

## Data Warehouse Admin

### Abstract Code 1

- Display form with below links to sections:
  - “Update City Population”
  - “Maintain Holiday(s)”
  - “Maintain Manage(s)”

### Abstract Code 2

- Upon:
  - Click Update City Population –Jump to **Update City Population** task.
  - Click Maintain Holiday(s) – Jump to **Maintain Holiday** task.
  - Click Maintain Manage(s) – Jump to **Maintain Manager** task.

## Report 1 - Manufacturer's Product Report

### Abstract Code

- User runs the **Manufacturer's Product Report** task:
  - Query for all **MANUFACTURER** by Name
    - For each **MANUFACTURER**:
      - Display the Name
      - Find each **PRODUCT** for the **MANUFACTURER**
      - For each **PRODUCT**:
        - Find the Retail\_price of **PRODUCT**
      - Count total number of **PRODUCT** for **MANUFACTURER**
      - Sum all Retail\_price of **PRODUCT** for **MANUFACTURER**
      - Average sum of all Retail\_price over total number of **PRODUCT**
      - Display total number of **PRODUCT** for **MANUFACTURER**
      - Find minimum Retail\_price for **MANUFACTURER**
        - Display minimum Retail\_price for **MANUFACTURER**
      - Find maximum Retail\_price for **MANUFACTURER**
        - Display maximum Retail\_price for **MANUFACTURER**
      - Run **SubReport 1-Drill Down Detail** task
        - Display **Detail** button for accessing report
    - Sort Average of all Retail\_price for all **MANUFACTURER** descending
      - Display first 100 **MANUFACTURER**

```
select
    m.name,
    count( distinct(p.pid)) as total_products,
    round( avg(p.retail_price)::numeric, 2 ) as avg_retail_price,
    round( min(p.retail_price)::numeric, 2 ) as min_retail_price,
    round( max(p.retail_price)::numeric, 2 ) as max_retail_price
from
    sedw.manufacturer m
inner join sedw.product p on
    p.manufacturer_id = m.id
group by
    m.name
order by
    avg( p.retail_price ) desc
limit 100;
```

## SubReport 1 - Drill Down Detail

### Abstract Code

User clicks for details in the **Manufacturer's Product Report** to display manufacturer details

- Display summary information from **Manufacturer's Product Report**
- Run the **Generate Drill Down Report 1** task:

```
select
  m.name,p.pid,p.name as product_name,
  round(p.retail_price::numeric, 2 ) as retail_price,
  string_agg(c."name",',')as category_name
from
  sedw.manufacturer m
inner join sedw.product p on
  p.manufacturer_id = m.id
  inner join sedw.belongs_to bt on bt.pid=p.pid
  inner join sedw.category c on c."name"=bt."name"
  where m."name"='garmin'
group by
  m.name,p.pid,p.name
order by
  p.retail_price desc;
```

- Query for **MANUFACTURER** by Name
  - Display the Name
  - Find Maximum\_discount
  - Display Maximum\_discount
  - Find each **PRODUCT** for the **MANUFACTURER**
  - For each **PRODUCT**:
    - Find PID of **PRODUCT**
    - Display PID
    - Find Name of **PRODUCT**
    - Display Name
    - Find each **CATEGORY** for **PRODUCT**
      - For each **CATEGORY**:
        - Concatenate into one comma-delimited value
    - Display concatenated **CATEGORY** for **PRODUCT**
    - Find the Retail\_price of **PRODUCT**
    - Display Retail\_price
  - Display each **PRODUCT**, sorted descending by Price

## Report 2 - Category Report

### Abstract Code

- User runs the **Category Report** task from the Report Dashboard:

```
select
  c.name,
  count( distinct( bt.pid )) as products_in_category,
  count( distinct( m.id )) as unique_manufacturers,
  round( avg( retail_price )::decimal, 2 ) as avg_retail_price
from
  category c
inner join belongs_to bt on
  bt."name"=c."name"
inner join product p on p.pid=bt.pid
inner join manufacturer m on
  m.id = p.manufacturer_id
group by
  c.name
order by
  c.name asc;
```

- Query for all categories by Name
  - For each **CATEGORY**:
    - Find each Product in the **CATEGORY**:
      - Find the **MANUFACTURER** of **PRODUCT**
      - Find the Retail\_price of **PRODUCT**
    - Count total number of **PRODUCT** in **CATEGORY**
    - Sum all Retail\_price of **PRODUCT** in **CATEGORY**
    - Average sum of all Retail\_price over total number of **PRODUCT**
    - Count unique **MANUFACTURER** in **CATEGORY**
    - Display total number of **PRODUCT** in **CATEGORY**
    - Display total number of unique **MANUFACTURER** in **CATEGORY**
    - Display average of Retail\_price in **CATEGORY**
  - Display each **CATEGORY**, sorted ascending by Name

## Report 3 - Actual versus Predicted Revenue for GPS Units

### Abstract Code

- User clicks the “*Actual vs. Predicted Revenue for GPS Units Report*” button
- For each `PRODUCT.Name.BELONGS_TO.CATEGORY.Name = “GPS”`
  - For each `PURCHASE_DAY.Date`
    - Sum *Store Quantity* for all `STORE.Store_number` on that date
    - If there is a matching `PRODUCT.HAS_A.SALE.Sale_date /*sale price*/`
      - Add  $(75\% * \text{Store Quantity})$  to *Predicted Sales Quantity*
      - Add *Store Quantity* to *Discounted Sales Quantity*
      - Add  $(\text{Store Quantity} * \text{PRODUCT.HAS\_A.SALE.Sale\_price})$  to *Actual Revenue*
    - Otherwise */\*no sale\*/*
      - Add *Store Quantity* to *Predicted Sales Quantity*
      - Add *Store Quantity* to *Retail Sales Quantity*
      - Add  $(\text{Store Quantity} * \text{PRODUCT.Retail\_price})$  to *Actual Revenue*
  - Calculate *Predicted Revenue* =  $(\text{Predicted Sales Quantity} * \text{PRODUCT.Retail\_Price})$
  - Calculate *Delta* =  $(\text{Actual Revenue} - \text{Predicted Revenue})$
  - Store `PRODUCT.Name`, `PRODUCT.PID`, `PRODUCT.Retail_price`, *Discounted Sales Quantity*, *Retail Sales Quantity*, *Actual Revenue*, *Predicted Revenue*, and *Delta*
- Sort *Deltas* from high to low
- Display report headers
- For each *Delta* where *Delta* > 5000 or *Delta* < -5000
  - Display `PRODUCT.PID`, `PRODUCT.Name`, `PRODUCT.Retail_price`, *Retail Sales Quantity*, *Actual Revenue*, *Predicted Revenue*, *Delta*
- Display report footers

```
select
    *
from
    (
        select
            bt.pid,
            p.name,
            p.retail_price,
            get_total.total_units_sold,
            get_discounted_units.units_sold_at_discount,
            get_total.total_units_sold -
            get_discounted_units.units_sold_at_discount as units_sold_at_retail_price,
            round(((get_total.total_units_sold-get_discounted_units.units_sold_at_discount) * p.retail_price + get_discounted_units.discounted_revenue)::numeric,
```

```
        2) as actual_revenue,
        round((get_discounted_units.units_sold_at_discount * 0.75 +
get_total.total_units_sold-get_discounted_units.units_sold_at_discount) *
p.retail_price::numeric,
        2) as predicted_revenue,

round(((get_total.total_units_sold-get_discounted_units.units_sold_at_disco
unt) * p.retail_price + get_discounted_units.discounted_revenue)::numeric,
        2) - round((get_discounted_units.units_sold_at_discount * 0.75
+ get_total.total_units_sold-get_discounted_units.units_sold_at_discount) *
p.retail_price::numeric,
        2) as difference
from
    category c
inner join belongs_to bt on
    c.name = bt.name
inner join product p on
    bt.pid = p.pid
inner join (
    select
        tracks_sold.pid,
        sum(quantity) as units_sold_at_discount,
        sum(tracks_sold.quantity * sale.sale_price) as
discounted_revenue
    from
        tracks_sold
    inner join sale on
        tracks_sold.pid = sale.pid
    inner join sale_sale_date on
        tracks_sold.date = sale_sale_date.sale_date
        and sale.sale_id = sale_sale_date.sale_id
    group by
        tracks_sold.pid ) as get_discounted_units on
get_discounted_units.pid = bt.pid
inner join (
    select
        pid,
        sum(quantity) as total_units_sold
    from
        tracks_sold
    group by
```



```

        pid ) as get_total on
        bt.pid = get_total.pid
    where
        c.name = 'gps') report
where
    abs(report.difference) > 5000
order by
    report.difference desc;

```

## Report 4 - Store Revenue By Year by State

### Abstract Code

- User clicks the “*Store Revenue by Year by State*” button
- Create *list of states* from CITY.STATE.{}

```
select state_name from sedw.state;
```

- Present drop-down menu containing *list of states*
- User selects *State* from menu
- For each STORE LOCATED\_IN *State*
  - For each PURCHASE\_DAY.Date
    - Calculate *Year* from PURCHASE\_DAY.Date
    - For each PRODUCT
      - If PRODUCT.HAS\_A.SALE.Date = PURCHASE\_DAY.Date, add (PRODUCT.PURCHASE\_DAY.Quantity \* PRODUCT.HAS\_A.SALE.Sale\_Price) to *Store Revenue.Year*
      - else add (PRODUCT.PURCHASE\_DAY.Quantity \* PRODUCT.Retail\_price) to *Store Revenue.Year*
  - Store STORE.Store\_number, STORE.Street\_address, STORE.LOCATED\_IN.City\_name, *Store Revenue.{}*
- For each *Year* from oldest to newest
  - Sort by *Store Revenue.Year*
  - Display report headers
  - For each STORE.Store\_number
    - Display STORE.Store\_number, STORE.Street\_address, STORE.LOCATED\_IN.City\_name, *Year, Store Revenue.Year*
  - Display report footers

```

\echo
'-----'
-----
\echo 'Report 4 State select '

```

```
\echo 'Below has New York hard coded; this will be taken from drop-down'
\echo
'-----'
-----
-- Report 4 State select
-- Below has New York hard coded; this will be taken from drop-down
select
store_number,
street_number ,
street_name ,
city_name,
year,
sum(revenue)as total_revenue
from
( -- First we need to get product sales with discount applied, then we can
aggregate
select
    s.store_number,
    s.street_number ,
    s.street_name ,
    c.city_name,
    extract ( year from ts."date" )::integer as year,
    -- ts.quantity*p.retail_price,
    p.pid,
    p."name",
    sale.pid,
    ts."date",
    ts.quantity,
    ROUND((COALESCE(sale.sale_price,
p.retail_price)*ts.quantity)::numeric,2) as revenue
    -- s.street_number || ' ' || s.street_name || ' ' || c.city_name ||
    ', ' || c.state_name as address
from
    sedw."store" s
inner join sedw.city c on c.id = s.city_id and c.state_name = 'New York'
inner join sedw.tracks_sold ts on ts.store_number = s.store_number
inner join sedw.product p on p.pid = ts.pid
left join sedw.sale on sale.pid=p.pid
left join sedw.sale_sale_date sd on sd.sale_id=sale.sale_id
)apply_discount
group by
```

```

store_number,
street_number ,
street_name ,
city_name,
year
order by year asc, total_revenue desc;

```

## Report 5 - Air Conditioners on Groundhog Day

### Abstract Code

- User clicks the “**Air Conditioners on Groundhog Day Report**” button
- For each **PRODUCT**.Name.BELONGS\_TO .**CATEGORY**.Name = “Air Conditioner”
  - For each **PURCHASE\_DAY**.Date
    - Calculate *Year*
    - Add Product.PURCHASE\_DAY.Quantity to *Total Units.Year*
  - For each **PURCHASE\_DAY**.Date that is a February 2
    - Calculate *Year*
    - add **PRODUCT**.PURCHASE\_DAY.Quantity to *Groundhog Units.Year*
- For each *Year* (from lowest to highest)
  - Display *Year*, *Total Units.Year*,  $=(Total\ Units.Year / 365)$ , *Groundhog Units.Year*

/\* this assumes every year has air conditioner sales, and that every year has air conditioner sales on Groundhog Day \*/

```

select * from (
    select extract(YEAR from ssd.sale_date)
as year,
    count(sale.sale_id)
AS sales,
    to_char(count(sale.sale_id)::FLOAT / 365,
'99999.000') AS daily_sales
    from sale
    join sale_sale_date ssd on sale.sale_id =
ssd.sale_id
    join product p on sale.pid = p.pid
    join belongs_to bt on p.pid = bt.pid
    where bt.name = 'Air Conditioner'
    group by extract(YEAR from ssd.sale_date)
    order by extract(YEAR from ssd.sale_date) ASC
) as tab1

```

```
JOIN (
  select extract(YEAR from ssd.sale_date) as year,
         count(sale.sale_id)              AS GroundhogDay_Sales
  from sale
        join sale_sale_date ssd on sale.sale_id = ssd.sale_id
        join product p on sale.pid = p.pid
        join belongs_to bt on p.pid = bt.pid
  where bt.name = 'Air Conditioner'
        and extract(DOY from ssd.sale_date) = 33
  group by extract(YEAR from ssd.sale_date)
  order by extract(YEAR from ssd.sale_date) ASC
) as tab2
on tab1.year = tab2.year;
```

## Report 6 - State with Highest Volume for each Category

### Abstract Code

- Show *year and month drop down menus* populated with available dates from database

```
select
  extract( year from ts.date ) as the_year,
  extract( month from ts.date ) as the_month
from
  sedw.tracks_sold ts
group by
  the_year,
  the_month;
```

- Show *“generate report button”*
- Upon choosing a year and month and clicking the *generate report button*:
  - Query the database to return the **State** and the highest sales in each **Category**
  - Display a row with the **Category** name, the **State** with highest sales in that **Category**, the number of **sales** in that **Category**, a **button** that generates SubReport 6.
    - If a **Category** has more than one **State** as equal in highest sales, Display a row for each state.

```
select final_output.* from
(select
  state_name,
  category,
  the_year,
```

```
        the_month,
        units_sold,
        total_revenue,
        rank() over ( partition by state_name, category order by units_sold
desc )
from (
    select
state_name,
category,
the_year,
the_month,
sum(quantity) as units_sold,
sum(revenue)as total_revenue
from
( -- First we need to get product sales with discount applied, then we can
aggregate
select
    state.state_name,
    extract( year from ts.date )::integer as the_year,
    extract( month from ts.date )::integer as the_month,
    ROUND((COALESCE(sale.sale_price,
p.retail_price)*ts.quantity)::numeric,2) as revenue,
    ts.quantity,
    b."name" as category
from sedw."store" s
inner join sedw.city c on c.id = s.city_id -- and c.state_name = 'New York'
inner join sedw.tracks_sold ts on ts.store_number = s.store_number
inner join sedw.product p on p.pid = ts.pid
left join sedw.sale on sale.pid=p.pid
left join sedw.sale_sale_date sd on sd.sale_id=sale.sale_id
inner join sedw.state on state.state_name=c.state_name
inner join sedw.belongs_to b on b.pid=p.pid
where 1=1
and extract( year from ts.date )::integer='2018'
and extract( month from ts.date )::integer='01'
)apply_discount
group by
    state_name,
    category,
    -- store_number,
    -- street_number ,
```

```
-- street_name ,
-- city_name,
the_year,
the_month)category_by_state order by category)final_output where
rank=1;
```

## SubReport 6 - Drill Down Detail:

### Abstract Code

- Upon a **button** click in report 6:
  - Show **a header** containing original criteria from parent report (*category, year/month, state*).
  - Show column headings of: Store address, Store id, city, Manager name, Manager email
  - Query database for **Stores** that are located in the passed-in state from parent report
    - get the **Stores' address** and **store\_id**
  - Query database for **City** of the store
  - Query database for all **Managers** located in a store
    - get the **Managers name** and **email\_address**
  - *for each store* in the arranged list of stores Display a row with **Store** name, **Store** id, **City**, **Manager** name, **Manager** email
    - *if a Store* has multiple **Managers**, display a new row *for each* manager in that store

```
echo
'-----'
-----'
\echo 'Report 6 Drill-Down Hard coded in where clause'
\echo
'-----'
-----'

select
topstore.store_number,
topstore.address,
topstore.city_name,
m.first_name,
m.last_name,
m.email_address
from
(
  select
    s.store_number,
    s.street_number || ' ' || s.street_name || ' ' || c.city_name || ', ' ||
    c.state_name as address,
```

```
state.state_name,
c.city_name,
extract( year from ts.date)::integer as the_year,
extract( month from ts.date)::integer as the_month,
b."name" as category
from sedw."store" s
inner join sedw.city c on c.id = s.city_id -- and c.state_name = 'New York'
inner join sedw.tracks_sold ts on ts.store_number = s.store_number
inner join sedw.product p on p.pid = ts.pid
left join sedw.sale on sale.pid=p.pid
left join sedw.sale_sale_date sd on sd.sale_id=sale.sale_id
inner join sedw.state on state.state_name=c.state_name
inner join sedw.belongs_to b on b.pid=p.pid
where 1=1
and extract( year from ts.date)::integer='2018'
and extract( month from ts.date)::integer='01'
group by s.store_number, address,
city_name,state.state_name,the_year,the_month,b."name"
)topstore
inner join sedw.managed_by mb on mb.store_number=topstore.store_number
inner join sedw.manager m on m.email_address=mb.email_address
where 1=1
and topstore.category='electronics' and topstore.state_name='New York'
and the_year='2018' and the_month='1'
order by topstore.store_number asc
;
```

## Report 7 - Revenue by Population

### Abstract Code

- **Query** the database for the **number\_of\_years** in the database
  - Arrange years in ascending order (oldest to newest)
- *For each* year in the database:
  - Query the database to get the population of each **City**.
    - Arrange cities into predefined categories in ascending order (smallest to largest)
  - Query database to get the **revenue** for each store in a **City**.
  - Calculate **average\_revenue** for population category
  - Display the data for the current year.
    - Initially the display will have city categories as the rows and years as the columns
- Show **pivot button** for switching “years”/”city category” as either columns or rows.
  - Upon pressing the **button** switch which category is rows.

- If rows are represented by years, make years the columns and the city categories the rows
- Else make rows the years and city categories the columns.

```
select
    size,
    round(avg(revenue)::numeric,2) as average_revenue,
    year
from
    (
values ('small',
0,
3700000),
('medium',
3700000,
6700000),
('large',
6700000,
9000000),
('extra large',
9000000,
10000000000)) as t (size,
    min,
    max)
inner join (
    select
        city_id,
        s.store_number,
        year,
        population,
        sum(revenue)as revenue
    from
        city c
    inner join store s on
        c.id = s.city_id
    inner join store_revenue sr on
        s.store_number = sr.store_number
    group by
        city_id,
        s.store_number,
        sr.year,
```



```
        population ) as t2 on
t2.population >= t.min
and t2.population < t.max
group by
    size,
    year
order by
    size desc, --the reason size is desc is because alphabetically, this
              would make the categories ascending
    year asc;
```

## Update City Population

### Abstract Code

- User clicks on the Update City link from the Data Warehouse Admin form.
- Show Cities form
- For each City in CITY.
  - Display CITY attributes: CITY.City\_name, CITY.State and CITY.Population

```
select city_name,state_name,population from sedw.city;
```

- User updates population ('\$population') input field to desired value.
- When the **Update** button is clicked
  - Validate the \$population is an integer
    - If valid: Update the populate for CITY.Population to the value stored in \$population.

```
the_id:=select id from sedw.city where city_name='$city_name' and
state_name='$state';
```

```
update sedw.city set population='$population' where id=@the_id;
```

- Else: Prompt user to use a valid integer, validate and Update.

## Maintain Holiday

### Abstract Code

- User clicks on the *Maintain Holiday* link from the **Data Warehouse Admin** form.
  - Query database for all holidays and sort in ascending order by date.
    - The **Maintain/View Holiday** form will show with a table of holidays sorted in ascending order by date.
    -
  - Click **Add** button – User will be prompted for **Holiday** name \$holiday\_name and \$date. The **CREATE** task will be run with \$holiday\_name and \$date.  
If holiday exists (count > 0): query databases for manager where **Holiday**.name = \$holiday\_name and Date=\$date

```
select
    count( id )
from
    holiday h
where
    lower( h."name" )= '$holiday' and date = '$date'
```

- Inform the user that the holiday already exists in the database.
- Else: Add the new **Holiday** into the database.

```
insert
into
    holiday ( id, date, name )
values ( nextval( 'sedw.holiday_id_seq' ), '$date', '$holiday_name' );
```

## Maintain Manager

### Abstract Code

- User clicks on the Maintain Manager link from the **Data Warehouse Admin** form.
  - The **Manager** form will show a table of managers along with a drop down for Stores and Manager Names for selection.
    - Query database for unique **STORE**.Store\_number

- Query database for unique **MANAGER**.Manager\_name
- o Populate Drop downs with results from queries
- o Click **Add** button – User will be prompted for **MANAGER**.name \$manager and **STORE**.Store\_number \$store. The **CREATE** task will be run with these arguments.

```
insert into sedw.manager
(email_address, first_name, last_name, status)
values('$email_address', '$first_name', '$last_name',
'active'::employment_status);
```

- User selects either a \$store or a manager name \$manager\_name
- If store: query databases for manager where **STORE**.Store\_number = \$store
- If manager: query databases for manager where **MANAGER**.Manager\_name = \$name
  - Update the **Manager** form with information retrieved from the database. If the manager manages multiple stores, each row will be displayed on the table with the **STORE**.Store\_number.
  - Click **Delete Manager** button – Present the user with confirmation that the manager and his associations will be removed from database, if yes proceed, else cancel.

```
delete from sedw.manager
where email_address='$email_address';
```

- Click **Unassign** button – This will remove the association between the **MANAGER** and **STORE**.

```
delete from sedw.managed_by
where store_number=$store_number AND email_address='$email_address';
```

- Click **Assign** button – The user will be prompted to select the **STORE**.Store\_number from a drop down. Once selected the database will create the association with **MANAGER** and **STORE**.

```
insert into sedw.managed_by
(store_number, email_address)
values($store_number, '$email_address');
```

## Store\_Revenue View

### Abstract Code

- This view returns the revenue each store made on a given item. It was a commonly used query for many reports but we didn't realize it until report 7.
- It is used in the queries for report 7.

```
CREATE OR REPLACE VIEW sedw.store_revenue
AS SELECT s.store_number,
        s.street_number,
        s.street_name,
        c.city_name,
        date_part('year'::text, ts.date)::integer AS year,
        p.pid,
        p.name,
        ts.date,
        ts.quantity,
        round((COALESCE(sale.sale_price, p.retail_price) * ts.quantity::double
precision)::numeric, 2) AS revenue
FROM store s
    JOIN city c ON c.id = s.city_id AND c.state_name::text = 'New
York'::text
    JOIN tracks_sold ts ON ts.store_number = s.store_number
    JOIN product p ON p.pid = ts.pid
    LEFT JOIN sale ON sale.pid = p.pid
    LEFT JOIN sale_sale_date sd ON sd.sale_id = sale.sale_id;

-- Permissions

ALTER TABLE sedw.store_revenue OWNER TO team075;
GRANT ALL ON TABLE sedw.store_revenue TO team075;
```