**Add Birdie Blacklist Data into DW and Cognos**

**Objective:**

Regarding to Birdie’s blacklist mechanism, User expect able to retrieve blacklist data records via Cognos platform.

**Requirement Details:**

**Section A – General Requirement**

In this SCR, there is consist of three tasks as listed below

1. Task1: Create table PRD\_ADW.BIRDIE\_BLACKLIST
2. Task2: Create view PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST
3. Task3: With item 2, deploy columns on Cognos platform for users

**Section B – Task 1 - ETL Flow and Data Structure of Table: PRD\_ADW.BIRDIE\_BLACKLIST**

DW Team please prepare a mechanism for absorbing text file that provided by Benny Fung, P&S. into the above captioned table. The file name is: idblacklist\_<YYYYMMDD>.txt. and the readiness of this file will be on daily basis.

The flow chart below illustrated the overview.

Absorb Data from Raw:

Extract Data from Raw

Check:

-Hashed HKID already exist in table

-AND the “Resume backlist date” = 12/31/2999

Insert New Record

No

Yes

Update “First Discon Date” column, Others remain unchanged

Check Existence with Raw:

Yes, Still Exists

Check Table’s Hashed HKID whether already exist in Raw file

No Longer Exists

Update “Resume backlist date” as today-1 for Existing Record

**Data structure of the table:**

|  |  |  |
| --- | --- | --- |
| Data Table in DW | | Corresponding Data Source (The text file) |
| Column Name | Data Type |  |
| HKID\_TYPE | Varchar2(1) | Extract from first column |
| HKID\_HASH | Varchar2(128) | Extract from second column |
| BLACKLIST\_DT | Date | Extract from fourth column |
| RESUME\_DT | Date | Date with calculation   * Still in blacklist: 31th Dec 2999 * No longer blacklist: Last date of being blacklist |
| REJECT\_CODE | Varchar2(5) | Extract from third column |
| FIRST\_DISCON\_DT | Date | Extract from fourth column |

**Data Insertion Logic:**

Eligible Criteria for insertion:

* **Case 1**: The Hashed ID DOES NOT EXISTS in table
* **Case 2**: The Hashed ID EXISTS in table **AND** the RESUME\_DT<> 31th Dec 2999

**Data Insertion Method:**

|  |  |
| --- | --- |
| Column Name | Value |
| HKID\_TYPE | Extract from first column |
| HKID\_HASH | Extract from second column |
| BLACKLIST\_DT | Extract from fourth column |
| RESUME\_DT | 31th Dec 2999 |
| REJECT\_CODE | Extract from third column |
| FIRST\_DISCON\_DT | Extract from fourth column |

**Data Modification Logic:**

Eligible Criteria for modification:

* **Case 1**: The Hashed ID from raw file EXISTS in table **AND** the RESUME\_DT = 31th Dec 2999
* **Case 2**: The Hashed ID from table NO LONGER EXIST in Raw Data

Data Modification Method – **Case 1**

|  |  |
| --- | --- |
| Column Name | Value |
| HKID\_TYPE | <Remain Unchanged> |
| HKID\_HASH | <Remain Unchanged> |
| BLACKLIST\_DT | <Remain Unchanged> |
| RESUME\_DT | <Remain Unchanged> |
| REJECT\_CODE | <Remain Unchanged> |
| FIRST\_DISCON\_DT | Extract from fourth column |

Data Modification Method – **Case 2**

|  |  |
| --- | --- |
| Column Name | Value |
| HKID\_TYPE | <Remain Unchanged> |
| HKID\_HASH | <Remain Unchanged> |
| BLACKLIST\_DT | <Remain Unchanged> |
| RESUME\_DT | Today’s Date-1 |
| REJECT\_CODE | <Remain Unchanged> |
| FIRST\_DISCON\_DT | <Remain Unchanged> |

**Section B – Task 2 - ETL Flow and Data Structure of View: PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST**

The structure as same as the PRD\_ADW.BIRDIE\_BLACKLIST table.

**Section B – Task 3 - Deploy View on Cognos**

Please help deploy the PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST on Cognos with below settings:

|  |  |  |
| --- | --- | --- |
| Path | Element Name on Cognos | View and Column Name |
| [BUV(Birdie)].[Birdie].[Blacklist] | HKID Type | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.HKID\_TYPE |
| [BUV(Birdie)].[Birdie].[Blacklist] | Hashed ID | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.HKID\_HASH |
| [BUV(Birdie)].[Birdie].[Blacklist] | Blacklist Date | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.BLACKLIST\_DT |
| [BUV(Birdie)].[Birdie].[Blacklist] | Resume Date | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.RESUME\_DT |
| [BUV(Birdie)].[Birdie].[Blacklist] | Reject Code | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.REJECT\_CODE |
| [BUV(Birdie)].[Birdie].[Blacklist] | First Disconnection Date | PRD\_BIZ\_SUMM\_VW.VW\_BIRDIE\_BLACKLIST.FIRST\_DISCON\_DT |

*Expected data outputs:*

* Yellow Highlight: Update/Insert action(s) happens

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **image as of when** | **HKID** | **Blacklist Date** | **Resume Date** | **Blacklist date of 1st Unsettled line** | **Rule Applied** |
| 1-Jan-19 | Z123456(7) | 1-Jan-19 | 31-Dec-99 | 1-Jan-19 | Data Insertion Logic: Case 1 |
| 2-Jan-19 | Z123456(7) | 1-Jan-19 | 31-Dec-99 | 1-Jan-19 | Data Modification Logic: Case 1  (*Only update the “Blacklist date of 1st Unsettled line” from raw, values:* ***1-Jan***) |
| 20-Jan-19 | Z123456(7) | 1-Jan-19 | 31-Dec-99 | 1-Jan-19 | Data Modification Logic: Case 1  (*Only update the “Blacklist date of 1st Unsettled line” from raw, values:* ***1-Jan***) |
| 15-Feb-19 | Z123456(7) | 1-Jan-19 | 31-Dec-99 | 20-Jan-19 | Data Modification Logic: Case 1  (*Only update the “Blacklist date of 1st Unsettled line” from raw, values:* ***20-Jan***) |
| 31-Mar-19 | Z123456(7) | 1-Jan-19 | 31-Mar-19 | 20-Jan-19 | Data Modification Logic: Case 2 |
|  |  |  |  |  | Data Insertion Logic: Case 2 |
| 25-Jul-19 | Z123456(7) | 1-Jan-19 | 31-Mar-19 | 20-Jan-19 | (<< Old record will kept) |
|  | Z123456(7) | 25-Jul-19 | 31-Dec-99 | 25-Jul-19 | (<< New record will be inserted also) |