







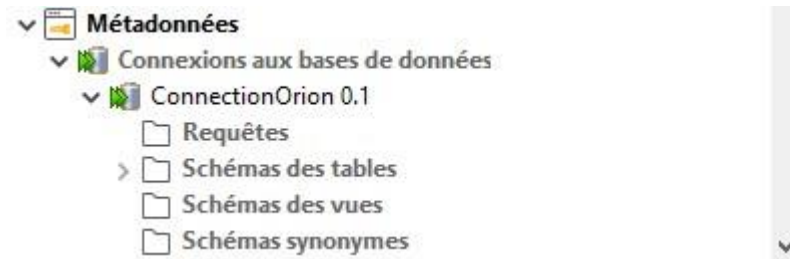
TIME_DIM									
Table	Données	Index	Modèle	Contraintes	Autorisations	Statistiques	Valeurs par défaut d'interface utilisateur	Déclencheurs	Dépendances SQL
Interrogation	Compter des lignes	Insérer une ligne							
MODIFIER	DATE_ID	YEAR_ID	QUARTER	MONTH_NAME	WEEKDAY_NAME	MONTH_NUM	WEEKDAY_NUM		
	17/05/02	2002	2002Q2	mai	vendredi	5	5		
	18/05/02	2002	2002Q2	mai	samedi	5	6		
	19/05/02	2002	2002Q2	mai	dimanche	5	7		
	20/05/02	2002	2002Q2	mai	lundi	5	1		
	21/05/02	2002	2002Q2	mai	mardi	5	2		
	22/05/02	2002	2002Q2	mai	mercredi	5	3		
	23/05/02	2002	2002Q2	mai	jeudi	5	4		
	24/05/02	2002	2002Q2	mai	vendredi	5	5		
	25/05/02	2002	2002Q2	mai	samedi	5	6		
	26/05/02	2002	2002Q2	mai	dimanche	5	7		
	27/05/02	2002	2002Q2	mai	lundi	5	1		
	28/05/02	2002	2002Q2	mai	mardi	5	2		
	29/05/02	2002	2002Q2	mai	mercredi	5	3		
	30/05/02	2002	2002Q2	mai	jeudi	5	4		
	31/05/02	2002	2002Q2	mai	vendredi	5	5		

1. Spécification des données sources (entrées / sorties):

1.1 Sources d'entrées :

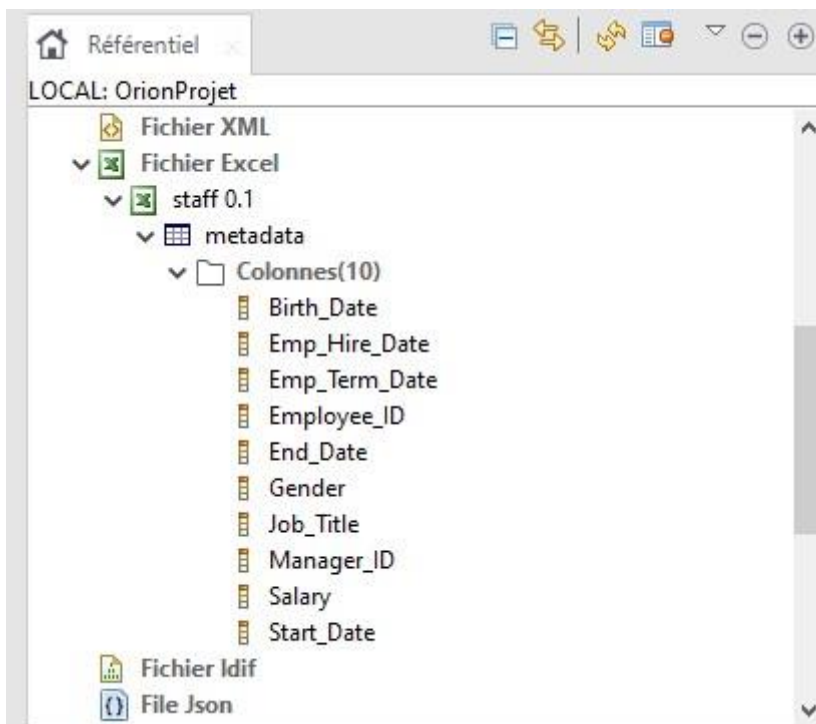
1.1.1 Création de la connexion «ConnectionOrion 0.1 » :

Etablissement de la connexion (nommée ConnectionOrion0.1 sous Talend) à la base de données acces .



1.1.2 Importation du fichier Excel staff.xls :

Etablissement d'une connexion au fichier Excel Staff.xls nommé « staff 0.1 »



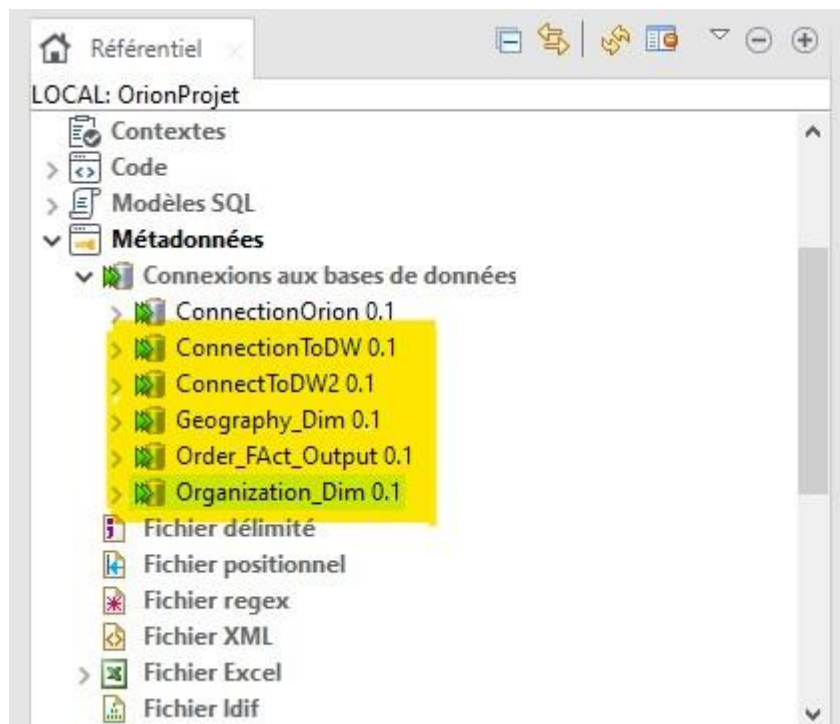
1.2 Sources de sorties :

Etablissement des connexions pour chaque sortie des jobs avec le composant de la palette « tDBOutput » .

The screenshot shows the Talend Designer interface with the 'tDBOutput_1(Oracle)' component selected. The 'Paramètres simples' tab is active, displaying the following configuration:

- Database:** Oracle (with an 'Apply' button)
- Type de propriété:** Référentiel (with a dropdown arrow)
- Bases de données (ORACLE_SID):** Order_Fact (with a dropdown arrow)
- ☐ Utiliser une connexion existante
- Type de connexion:** Oracle SID (with a dropdown arrow)
- Version de la base de données:** Oracle 10 (with a dropdown arrow)
- Hôte:** "DESKTOP-NLJMO6F" (with a dropdown arrow)
- Port:** "1521" (with a dropdown arrow)
- Base de données:** "XE" (with a dropdown arrow)
- Schéma Oracle:** "" (with a dropdown arrow)
- Utilisateur:** "chabou_aziz" (with a dropdown arrow)
- Mot de passe:** "*****" (with a dropdown arrow)
- Table:** "Order_Fact" (with a dropdown arrow)
- Action sur la table:** Défaut (with a dropdown arrow)
- Action sur les données:** Insert ou update (with a dropdown arrow)
- Schéma:** Built-In (with a dropdown arrow) and a 'Modifier le schéma' button
- Sync colonnes:** (with a button)
- Source de données:** This option only applies when deploying and running in the Talend Runtime
- ☐ Spécifier l'alias de la source de données
- ☐ Arrêter en cas d'erreur

At the bottom right, there is a watermark that says 'Activer Windows' and 'Accédez aux paramètres'.



2. Création du job de remplissage de la dimension Customer Dim:

Création du job 1 nommé *Job01_Customer_Dim 0.1* contient les fichiers sources COSTUMER et CUSTOMER_TYPE

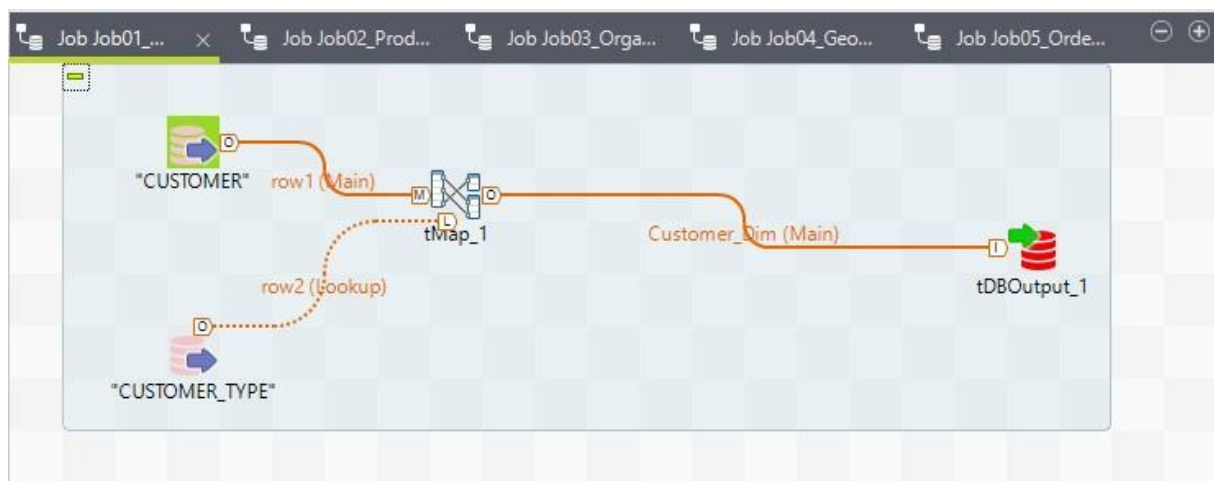















Table Cible	Colonne Cible	Table(s) Source	Colonne(s) source	Remarques
CUSTOMER_DIM	Customer_ID	Customer	CUSTOMER_ID	Clé primaire
CUSTOMER_DIM	Customer_Country	Customer	COUNTRY	
CUSTOMER_DIM	Customer_Group	Customer_Type	CUSTOMER_GROUP	
CUSTOMER_DIM	Customer_Type	Customer_Type	CUSTOMER_TYPE	
CUSTOMER_DIM	Customer_Gender	Customer	GENDER	
CUSTOMER_DIM	Customer_Age_Group	-	-	Une nouvelle variable créer, générer par une expression donner à l'énonce .
CUSTOMER_DIM	Customer_Age	-	-	Une nouvelle variable créer, générer par une expression donner à l'énonce .
CUSTOMER_DIM	Customer_Name	Customer	CUSTOMER_NAME	
CUSTOMER_DIM	Customer_Firstname	Customer	CUSTOMER_FIRSTNAME	
CUSTOMER_DIM	Customer_Lastname	Customer	CUSTOMER_LASTNAME	
CUSTOMER_DIM	Customer_Birth_Date	Customer	BIRTH_DATE	

Le résultat de l'exécution de la table Customer_Dim:

CUSTOMER_DIM									
Table Données Index Modèle Contraintes Autorisations Statistiques Valeurs par défaut d'interface utilisateur Déclencheurs Dépendances SQL									
Interrogation Compter des lignes Insérer une ligne									
MODIFIER	CUSTOMER_ID	CUSTOMER_COUNTRY	CUSTOMER_GROUP	CUSTOMER_TYPE	CUSTOMER_GENDER	CUSTOMER_AGE	CUSTOMER_NAME	CUSTOMER_FISTNAME	CUSTOMER_LASTNAME
	73802	FR	Orion Club Gold members	Orion Club Gold members low activity	M	91	Gilles Faraj	Gilles	Faraj
	73803	FR	Orion Club Gold members	Orion Club Gold members medium activity	F	51	Isabelle Vong	Isabelle	Vong
	73804	IT	Orion Club Gold members	Orion Club Gold members medium activity	M	81	Luciano Tiberli	Luciano	Tiberli
	73805	IT	Orion Club Gold members	Orion Club Gold members medium activity	F	39	Tatiana Cigala	Tatiana	Cigala
	73806	IT	Orion Club members	Orion Club members low activity	M	39	Milco Papiri	Milco	Papiri
	73807	CA	Orion Club members	Orion Club members inactive	F	37	Julie Blaize	Julie	Blaize
	73808	FR	Orion Club Gold members	Orion Club Gold members low activity	M	66	Michel Audrain	Michel	Audrain
	73809	FR	Orion Club Gold members	Orion Club Gold members medium activity	M	39	Emmanuel Massiaux	Emmanuel	Massiaux
	73810	ES	Orion Club members	Orion Club members medium activity	M	39	Juan Aguilera	Juan	Aguilera
	73811	ES	Orion Club Gold members	Orion Club Gold members medium activity	M	86	José Ignacio González	José Ignacio	González
	73812	FR	Orion Club members	Orion Club members inactive	M	39	Franck Racowski	Franck	Racowski
	73813	CA	Orion Club members	Orion Club members high activity	M	71	Sylvester Ebner	Sylvester	Ebner
	73814	FR	Orion Club Gold members	Orion Club Gold members low activity	M	66	Hubert Lepez	Hubert	Lepez
			Orion Club Gold						

3. Création du job de remplissage de la dimension Product Dim:

Création du job 2 nommé *Job02_Product_Dim 0.2* contient les fichiers sources PRODUCT_LIST et PRODUCT_LEVEL et SUPPLIER .

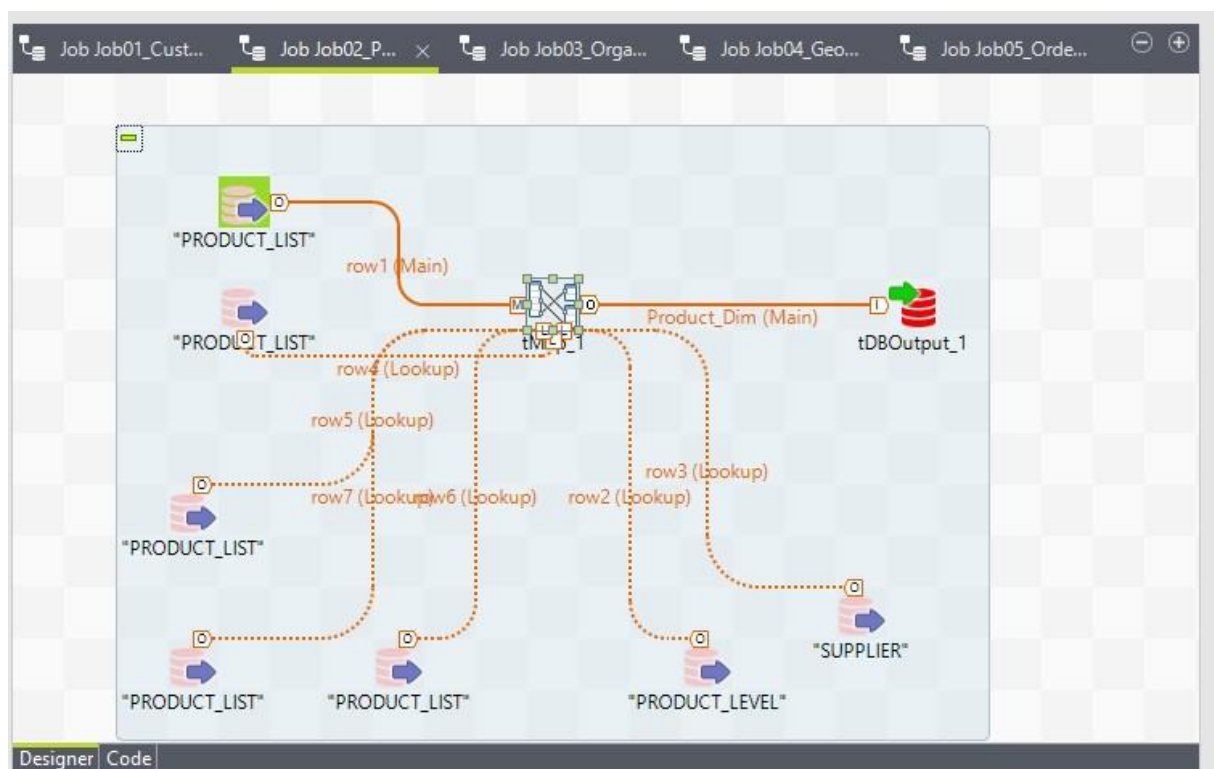

















Table Cible	Colonne Cible	Table(s) Source	Colonne(s) source	Remarques
PRODUCT_DIM	Product_ID	Product_List	PRODUCT_ID	Clé primaire
PRODUCT_DIM	Product_Line	Product_List	PRODUCT_NAME	
PRODUCT_DIM	Product_Categorie	Product_List	PRODUCT_NAME	
PRODUCT_DIM	Product_Groupe	Product_List	PRODUCT_NAME	
PRODUCT_DIM	Product_Name	Product_List	PRODUCT_NAME	
PRODUCT_DIM	Supplier_Country	Supplier	COUNTRY	
PRODUCT_DIM	Supplier_Name	Supplier	SUPPLIER_NAME	
PRODUCT_DIM	Supplier_Id	Supplier	SUPPLIER_ID	

Le résultat de l'exécution de la table Product_Dim:

PRODUCT_DIM								
Table Données Index Modèle Contraintes Autorisations Statistiques Valeurs par défaut d'interface utilisateur Déclencheurs Dépendances SQL								
Interrogation Compter des lignes Insérer une ligne								
MODIFIER	PRODUCT_ID	PRODUCT_LINE	PRODUCT_CATEGORY	PRODUCT_GROUP	PRODUCT_NAME	PRODUCT_COUNTRY	SUPPLIER_NAME	SUPPLIER_ID
	210200200014	Bathing Suits, Kids	Children Sports	Children	Sunfit Doonyl Swim Suit	-	Nautilus Sports/Wear Inc	6153
	210200200015	Bathing Suits, Kids	Children Sports	Children	Sunfit Madrochka Swim Suit	-	Nautilus Sports/Wear Inc	6153
	210200200016	Bathing Suits, Kids	Children Sports	Children	Sunfit Malika Swim Suit Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200017	Bathing Suits, Kids	Children Sports	Children	Sunfit Maximum Swim Suit Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200018	Bathing Suits, Kids	Children Sports	Children	Sunfit Moreau Swim Suit Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200019	Bathing Suits, Kids	Children Sports	Children	Sunfit Pants Scottish Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200020	Bathing Suits, Kids	Children Sports	Children	Sunfit Pants Slang Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200021	Bathing Suits, Kids	Children Sports	Children	Sunfit Sebas Swimming Trunks	-	Nautilus Sports/Wear Inc	6153
	210200200022	Bathing Suits, Kids	Children Sports	Children	Sunfit Slow Swimming Trunks	-	Nautilus Sports/Wear Inc	6153
	210200200023	Bathing Suits, Kids	Children Sports	Children	Sunfit Stockton Swimming Trunks Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200024	Bathing Suits, Kids	Children Sports	Children	Sunfit Swim Suit Magia Jr.	-	Nautilus Sports/Wear Inc	6153
	210200200025	Bathing Suits, Kids	Children Sports	Children	Sunfit Team Stretch Children's Swim Suit	-	Nautilus Sports/Wear Inc	6153
	210200200026	Bathing Suits, Kids	Children Sports	Children	Sunfit Team Stretch Jr. Swimming Trunks	-	Nautilus Sports/Wear Inc	6153
	210200200027	Bathing Suits, Kids	Children Sports	Children	Swim Suit Fellini Jr. Swim Suit	-	Nautilus Sports/Wear Inc	6153
	210200200028	Bathing Suits, Kids	Children Sports	Children	Swim Suit Mirmon Jr. Swim Suit	-	Nautilus Sports/Wear Inc	6153

4. Création du job de remplissage de la dimension Organization Dim:

Création du job 3 nommé *Job03_Organization_Dim 0.3* contient les fichiers sources ORGANIZATION et staff.

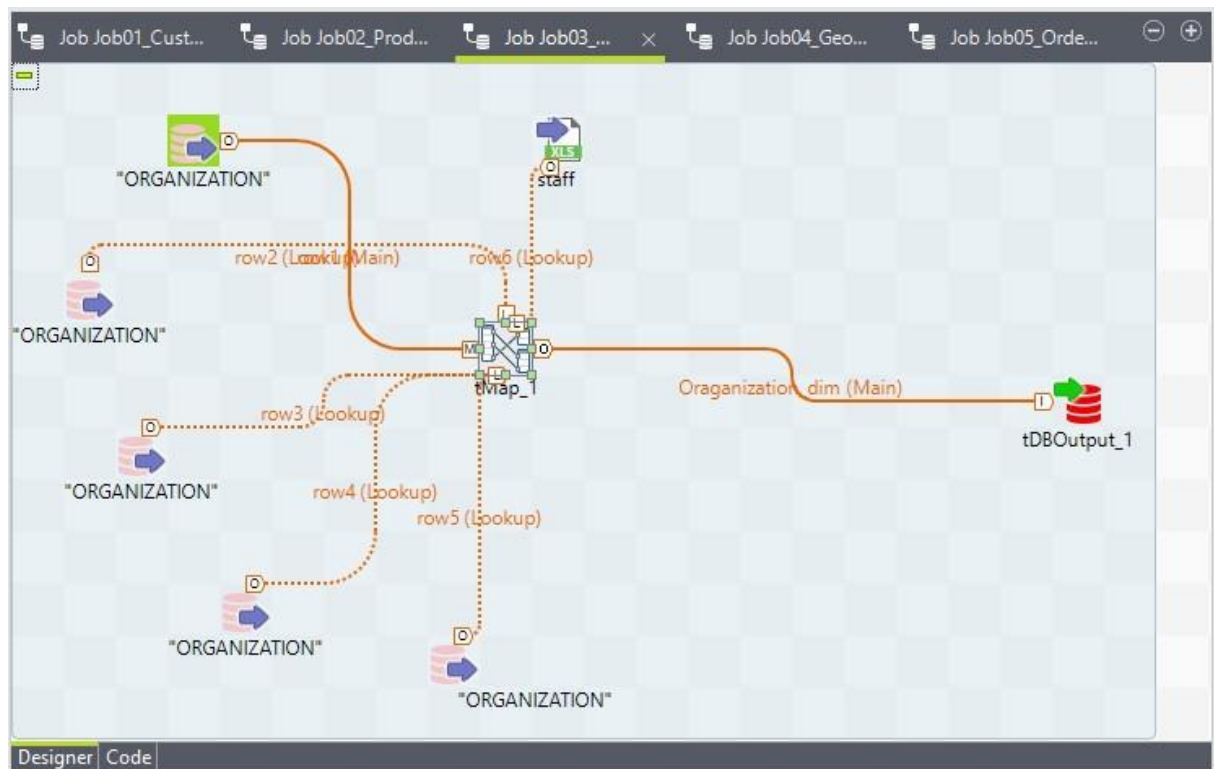


Table Cible	Colonne Cible	Table(s) Source	Colonne(s) source	Remarques
ORGANIZATION_DIM	Employer_ID	ORGANIZATION	EMPLOYER_ID	Clé primaire
ORGANIZATION_DIM	Employer_Country	ORGANIZATION	COUNTRY	-
ORGANIZATION_DIM	Company	ORGANIZATION	ORG_NAME	-
ORGANIZATION_DIM	Departement	ORGANIZATION	ORG_NAME	-
ORGANIZATION_DIM	Section	ORGANIZATION	ORG_NAME	-
ORGANIZATION_DIM	Org_Group	ORGANIZATION	ORG_NAME	-
ORGANIZATION_DIM	Job_Tiltle	staff	Job_Tiltle	-
ORGANIZATION_DIM	Employer_Name	ORGANIZATION	ORG_NAME	-
ORGANIZATION_DIM	Employer_Gender	staff	Gender	-
ORGANIZATION_DIM	Salary	staff	Salary	-
ORGANIZATION_DIM	Employer_Birth_Date	staff	Birth_date	-
ORGANIZATION_DIM	Employer_Hire_Date	staff	Emp_Hire_Date	-
ORGANIZATION_DIM	Employer_Term_Date	staff	Emp_term_date	-

Le résultat de l'exécution de la table Organization_Dim:

ORGANIZATION_DIM											
ées	Index	Modèle	Contraintes	Autorisations	Statistiques	Valeurs par défaut d'interface utilisateur	Déclencheurs	Dépendances	SQL		
Compter des lignes		Insérer une ligne									
EMPLOYEE_ID	EMPLOYEE_COUNTRY	COMPANY	DEPARTMENT	SECTION	ORG_GROUP	JOB_TITLE	EMPLOYEE_NAME	EMPLOYEE_GENDER	SALARY	EMPLOYEE_BIRTH_DATE	EMPLOYEE_HI
120320	DK	Orion Denmark	Sales	Sales	Swim Sports	Sales Rep. II	Martha Kilerich Dankier	F	27740	06/01/80	01/03/98
120321	DK	Orion Denmark	Sales	Sales	Swim Sports	Sales Rep. I	Henning Leif Stefansen	M	25250	14/10/84	01/05/02
120322	DK	Orion Denmark	Sales	Sales	Swim Sports	Sales Rep. I	Jim Keller Seide	M	25560	24/05/70	01/11/96
120323	DK	Orion Denmark	Sales	Sales	Team Sports	Sales Rep. II	Merete Moller Birkholm	F	27980	23/07/80	01/07/00
120324	DK	Orion Denmark	Sales	Sales	Team Sports	Sales Rep. II	Ketty Nielsen	F	28580	15/02/82	01/11/02
120325	DK	Orion Denmark	Sales	Sales	Temporary	Temp. Sales Rep.	Nadja Micheelsen	F	26370	27/03/84	01/12/02
120326	DK	Orion Denmark	Sales	Sales	Temporary	Temp. Sales Rep.	Hanne Moller Hardsner	F	25640	05/04/55	01/12/02
120327	DK	Orion Denmark	Sales	Sales	Temporary	Temp. Sales Rep.	Bjarne Rask Skou	M	25165	01/10/45	01/12/02
120328	DK	Orion Denmark	Sales	Sales	Winter Sports	Sales Rep. I	Elin Hugger	F	25530	08/05/50	01/04/73
120329	DK	Orion Denmark	Sales	Sales	Winter Sports	Sales Rep. I	Jesper Reinholt Jagd	M	25965	14/04/50	01/07/75
120330	DK	Orion Denmark	Sales Management	Sales Management	Sales Management	Sales Manager	Bjarne Gudomlund Buch-Larsen	M	87750	24/10/72	01/07/98
120331	DK	Orion Denmark	Sales Management	Sales Management	Sales Management	Director	Harald Schklaroff	M	151285	04/04/65	01/12/91
120332	FR	Orion France	Administration	Administration	Administration	Office Assistant I	Dominique Claverie	M	25070	05/10/65	01/12/90
120333	FR	Orion France	Administration	Administration	Administration	Office Assistant II	Juan Alberto Duchemin	M	26330	06/07/70	01/09/92
120334	FR	Orion France	Administration	Administration	Administration	Secretary III	Veronique Cambien	F	28015	24/07/75	01/01/96

5. Création du job de remplissage de la dimension Geography_Dim:

Création du job 4 nommé *Job04_Geography_Dim 0.4* contient les fichiers sources STREET_CODE , COUNTY , COUNTRY , STATE et CONTINENT .

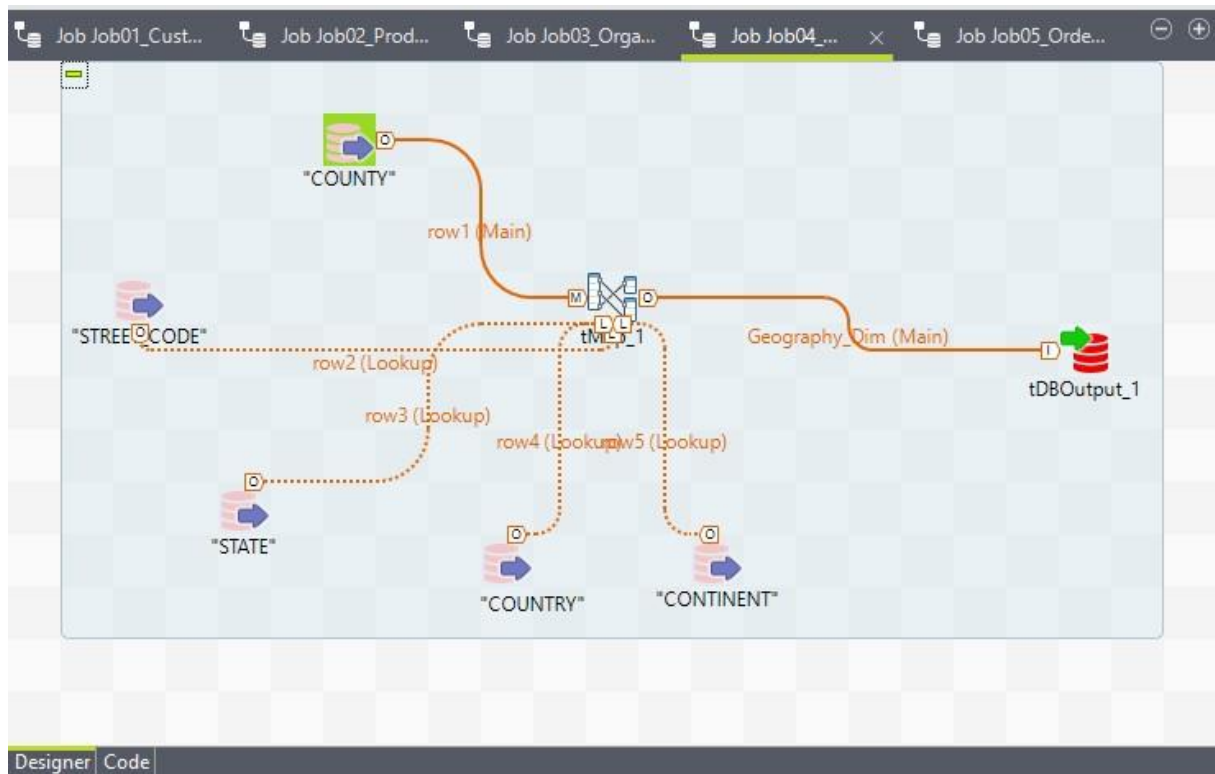


Table Cible	Colonne Cible	Table(s) Source	Colonne(s) source	Remarques
GEOGRAPHY_DIM	Street_Id	STREET_CODE	STREET_ID	Clé primaire
GEOGRAPHY_DIM	Continent	CONTINENT	CONTINENT_NAME	
GEOGRAPHY_DIM	Country	COUNTRY	COUNTRY_NAME	
GEOGRAPHY_DIM	State_Code	STATE	STATE_CODE	
GEOGRAPHY_DIM	State	STATE	STATE_NAME	
GEOGRAPHY_DIM	Region	COUNTY	REGION_NAME	
GEOGRAPHY_DIM	Province	COUNTY	PROVINCE_NAME	
GEOGRAPHY_DIM	County	COUNTY	COUNTY_NAME	
GEOGRAPHY_DIM	City	STREET_CODE	CITY_NAME	
GEOGRAPHY_DIM	Postal_Code	STREET_CODE	POSTAL_CODE	
GEOGRAPHY_DIM	Street_Name	STREET_CODE	STREET_NAME	

Le résultat de l'exécution de la table Geography_Dim:

GEOGRAPHY_DIM

Table Données Index Modèle Contraintes Autorisations Statistiques Valeurs par défaut d'interface utilisateur Déclencheurs Dépendances SQL

InterrogationCompter des lignesInsérer une ligne

MODIFIER	STREET_ID	CONTINENT	COUNTRY	STATE_CODE	STATE	REGION	PROVINCE	COUNTY	CITY	POSTAL_CODE	STREET_NAME
	9260111994	North America	US	WY	Wyoming	-	-	Juneau	Juneau	99801	Horton St
	9260112144	North America	US	WY	Wyoming	-	-	Kenai Peninsula	Kenai Peninsula	99664	Holly Pointe Dr
	9260113040	North America	US	WY	Wyoming	-	-	Kodiak Island	Kodiak Island	99615	Fowler Ridge Dr
	9260113337	North America	US	WY	Wyoming	-	-	Lake and Peninsula	Lake And Peninsula	99647	Heatherbrook Cir
	9260116347	North America	US	WY	Wyoming	-	-	Matanuska-Susitna	Matanuska-Susitna	99654	Hedgerow Dr
	9260119010	North America	US	WY	Wyoming	-	-	Nome (CA)	Nome (Ca)	99769	Indian Trl
	9260119170	North America	US	WY	Wyoming	-	-	Northwest Arctic	Northwest Arctic	99770	Hazelnut Dr
	9260121979	North America	US	WY	Wyoming	-	-	Prince of Wales-Outer	Prince of Wales-Out	99925	Grande Heights Dr
	9260125150	North America	US	WY	Wyoming	-	-	Sitka	Sitka	99835	Eagle Tavern Dr
	9260125156	North America	US	WY	Wyoming	-	-	Skagway-Hoonah-Angoon	Skagway-Hoonah-Ango	99827	Briar Patch Ln
	9260125356	North America	US	WY	Wyoming	-	-	Southeast Fairbanks (C	Southeast Fairbanks	99780	Halyard Dr
	9260127455	North America	US	WY	Wyoming	-	-	Valdez-Cordova (CA)	Valdez-Cordova (Ca)	99686	Cedar St
	9260127819	North America	US	WY	Wyoming	-	-	Wade Hampton (CA)	Wade Hampton (Ca)	99563	Heater Dr
	9260129643	North America	US	WY	Wyoming	-	-	Wrangell-Petersburg (C	Wrangell-Petersburg	99833	Kenneth Ridge Ct
	9260129920	North America	US	WY	Wyoming	-	-	Yukon-Koyukuk (CA)	Yukon-Koyukuk (Ca)	99758	Glen Erin Way

6. Création du job de remplissage de la dimension Order_Fact:

Création du job 5 nommé *Job05_Order_Fact 0.5* contient les fichiers sources ORDER_ITEMS , ORDERS et CUSTOMER .

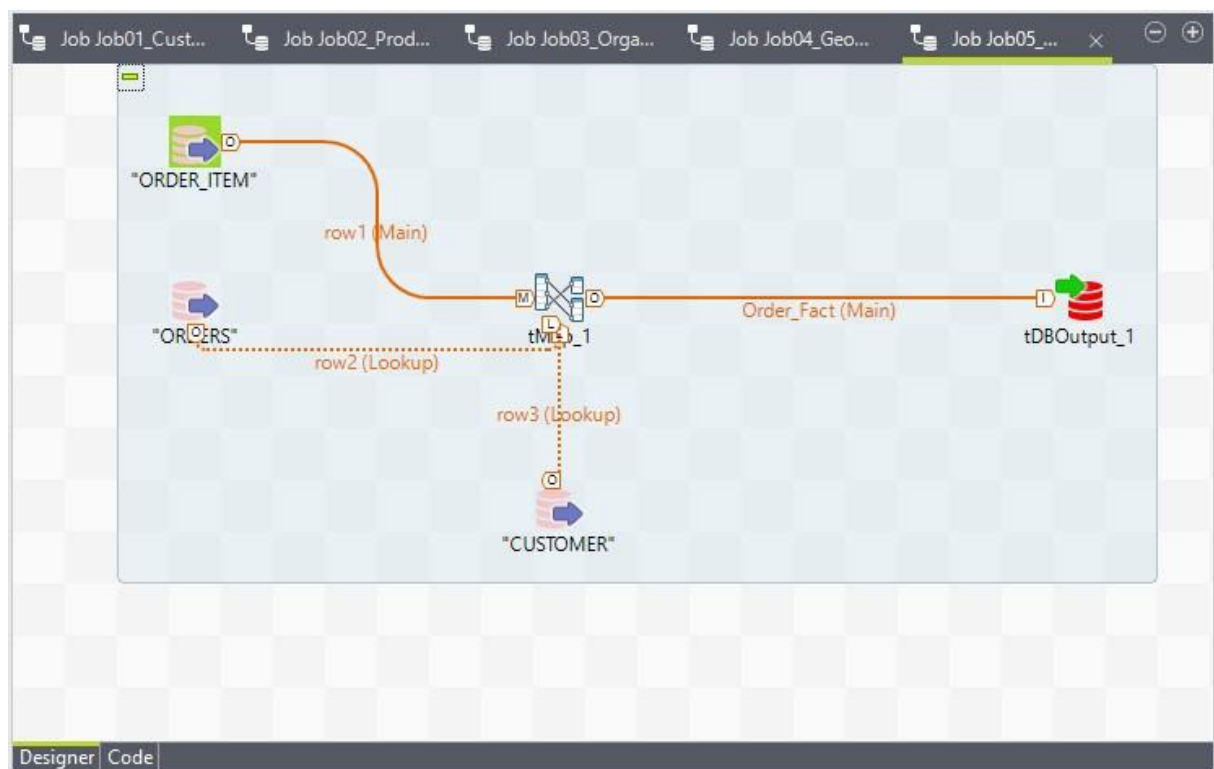

















Table Cible	Colonne Cible	Table(s) Source	Colonne(s) source	Remarques
ORDER_FACT	Customer_Id	CUSTOMER	CUSTOMER_ID	Clé primaire
ORDER_FACT	Employer_Id	ORDERS	EMPLOYER_ID	Clé primaire
ORDER_FACT	Street_Id	CUSTOMER	STREET_ID	Clé primaire
ORDER_FACT	Product_Id	ORDER_ITEM	PRODUCT_ID	Clé primaire
ORDER_FACT	Order_Date	ORDERS	ORDER_DATE	Clé primaire
ORDER_FACT	Order_Id	ORDER_ITEM	ORDER_ID	Clé primaire
ORDER_FACT	Order_Type	ORDERS	ORDER_TYPE	
ORDER_FACT	Delevery_Date	ORDERS	DELEVERY_DATE	
ORDER_FACT	Quantity	ORDER_ITEM	QUANTITY	
ORDER_FACT	Total_Retail_Price	ORDER_ITEM	TOTAL_RETAIL_PROCE	
ORDER_FACT	Costprice_Per_Unit	ORDER_ITEM	COSTPRICE_PER_UNIT	
ORDER_FACT	Discount	ORDER_ITEM	DISCOUNT	

Le résultat de l'exécution de la table Order_Fact:

ORDER_FACT											Créer ▼
Table Données Index Modèle Contraintes Autorisations Statistiques Valeurs par défaut d'interface utilisateur Déclencheurs Dépendances SQL											
Interrogation Compter des lignes Insérer une ligne											
MODIFIER	CUSTOMER_ID	EMPLOYEE_ID	STREET_ID	PRODUCT_ID	ORDER_DATE	ORDER_ID	ORDER_TYPE	DELIVERY_DATE	QUANTITY	TOTAL_RETAIL_P	
	93084	120827	8300100740	240100100572	02/01/98	1230007948	1	02/01/98	1	25,8	
	10577	99999999	3500100045	240100400053	02/01/98	1230007962	2	05/01/98	1	98,7	
	10826	120369	3500100078	220200100097	02/01/98	1230007968	1	02/01/98	1	88,8	
	10993	120379	3500100682	230100100062	02/01/98	1230007975	1	02/01/98	2	283,4	
	10993	120379	3500100682	230100700011	02/01/98	1230007975	1	02/01/98	1	252	
	12999	120411	3500101520	240800200059	02/01/98	1230008003	1	02/01/98	2	81,6	
	22400	120353	3500101332	210200300074	02/01/98	1230008028	1	04/01/98	1	23	
	24967	120350	3500100154	240100400125	02/01/98	1230008032	1	02/01/98	1	114,2	
	28882	120368	3500101248	220200300070	02/01/98	1230008034	1	02/01/98	1	100,2	
	30802	120349	3500100679	240100300005	02/01/98	1230008037	1	02/01/98	1	45	
	31447	99999999	3500100726	210200400047	02/01/98	1230008053	2	06/01/98	1	30,6	
	35180	120360	3500101194	220100100189	02/01/98	1230008068	1	02/01/98	1	94,7	
	38619	120372	3500101051	220200100074	02/01/98	1230008100	1	02/01/98	1	57,7	
	38619	120372	3500101051	220200200066	02/01/98	1230008100	1	02/01/98	1	88,2	
	41445	120350	3500100415	240100100127	02/01/98	1230008114	1	02/01/98	1	34,7	

Conclusion :

Création d'une Data Warehouse en respectant le schéma en étoile donnée dans l'énoncé dans le cadre de la prise de décision et de l'analyse décisionnelle.