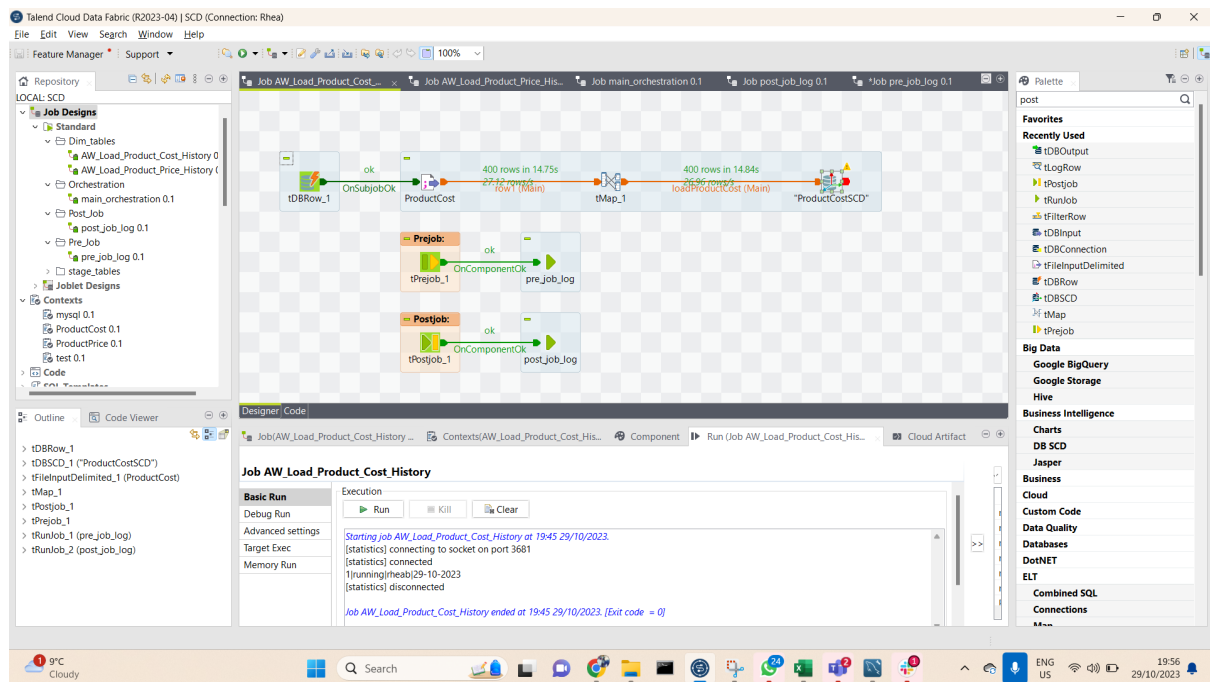
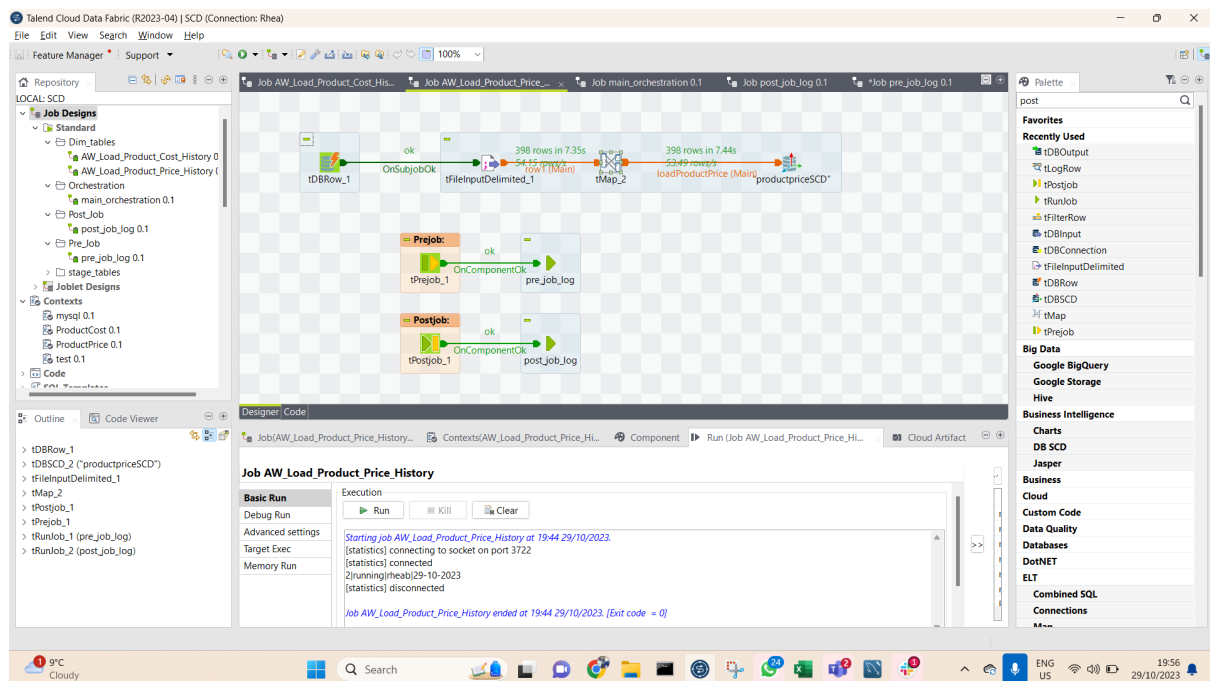


## DADABI Assignment (SCD)

### AW\_Load\_Product\_Cost



### AW\_Load\_Product\_Price



## Pre\_job

The screenshot displays the Talend Cloud Data Fabric (R2023-04) interface with a connection to 'Rhea'. The main workspace shows a workflow design for 'Job pre\_job\_log 0.1'. The workflow starts with a 'mysql' connector, followed by an 'OnSubJobOk' trigger, then a 'tFilterRow\_3' component (3 rows in 0s, 0 rows out (Main)), a 'tMap\_1' component (0 rows in 0.01s, 0 rows out (Filter)), and finally a 'tJobLog' component. The 'Job pre\_job\_log' execution log is visible at the bottom, showing the job starting at 19:45 29/10/2023, connecting to socket on port 3743, and ending at 19:45 29/10/2023 with exit code 0.

## post\_job

The screenshot displays the Talend Cloud Data Fabric (R2023-04) interface with a connection to 'Rhea'. The main workspace shows a workflow design for 'Job post\_job\_log 0.1'. The workflow starts with a 'mysql' connector, followed by an 'OnSubJobOk' trigger, then a 'tFilterRow\_3' component (3 rows in 0.03s, 93.75 rows/s (Main)), a 'tMap\_1' component (0 rows in 0.03s, 0 rows out (Filter)), and finally a 'tJobLog' component. The 'Job post\_job\_log' execution log is visible at the bottom, showing the job starting at 19:45 29/10/2023, connecting to socket on port 3821, and ending at 19:45 29/10/2023 with exit code 0.

## Main orchestration:

The screenshot displays the Talend Cloud Data Fabric (R2023-04) | SCD (Connection: Rhea) interface. The main workspace shows a job orchestration diagram with the following components: **pre\_job\_log** (green), **OnSubjobOk** (green), **AW\_Load\_Product\_Cost\_History** (green), **OnSubjobOk** (green), **AW\_Load\_Product\_Price\_History** (green), **OnSubjobOk** (green), and **post\_job\_log** (green). The diagram is titled **Job main\_orchestration 0.1**. Below the diagram, the **Job main\_orchestration** section shows the execution logs. The logs indicate that the job started at 19:48 29/10/2023 and ended at 19:48 29/10/2023 with an exit code of 0. The logs also show the job connecting to the socket on port 3583 and disconnecting. The interface includes a **Repository** pane on the left, a **Code** pane at the bottom, and a **Palette** on the right with various components like **Google BigQuery**, **Google Storage**, **Business Intelligence**, **Charts**, **DB SCD**, **Jasper**, **Business**, **Cloud**, **Custom Code**, **Data Quality**, **Databases**, **DotNET**, **ELT**, **Combined SQL**, and **Connections**.

## etl\_job

The screenshot displays the MySQL Workbench interface. The main workspace shows a query result for the **etl\_job** table. The query is `SELECT * FROM product_pricing.etl_job`. The result shows 3 rows of data. The **Table: etl\_job** section shows the table definition. The columns are: **job\_id** (int PK), **job\_name** (varchar(100)), **table\_name** (varchar(100)), **schedule** (varchar(30)), **created\_by** (varchar(30)), and **created\_dt** (date). The **Output** section shows the execution logs for the **etl\_job** table. The logs indicate that the table was truncated, dropped, and then created. The logs also show the table being populated with data from the **product\_pricing** database. The interface includes a **Navigator** pane on the left, a **Code** pane at the bottom, and a **Palette** on the right with various components like **Google BigQuery**, **Google Storage**, **Business Intelligence**, **Charts**, **DB SCD**, **Jasper**, **Business**, **Cloud**, **Custom Code**, **Data Quality**, **Databases**, **DotNET**, **ELT**, **Combined SQL**, and **Connections**.

job_id	job_name	table_name	schedule	created_by	created_dt
1	AW_Load_Product_Cost_History	ProductCostHistorySCD	Daily	dang7370Admin	2023-07-17
2	AW_Load_Product_Price_History	ProductPriceHistorySCD	Daily	dang7370Admin	2023-07-17
3	main	ProductPriceHistorySCD	Daily	dang7370Admin	2023-07-17

## elt\_job\_log

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'product\_pricing' expanded, showing tables like 'etl\_job\_log'. The main query editor shows a simple 'SELECT \* FROM product\_pricing.etl\_job\_log;' query. Below the query, the 'Result Grid' displays a table with columns: job\_id, job\_name, job\_status, created\_by, created\_date, and job\_log\_id. The table contains 4 rows of data. The bottom pane shows the 'Output' tab with a detailed log of SQL execution actions, including table truncation, creation, and data insertion, with timestamps and durations.

job_id	job_name	job_status	created_by	created_date	job_log_id
1	AW_Load_Product_Cost_History	running	rheab	2023-10-29 19:48:24	1
2	AW_Load_Product_Price_History	running	rheab	2023-10-29 19:48:39	3
2	AW_Load_Product_Price_History	completed	rheab	2023-10-29 19:48:46	4

**Table: etl\_job\_log**

**Columns:**

- job\_id int
- job\_name varchar(100)
- job\_status varchar(200)
- created\_by varchar(200)
- created\_date datetime
- job\_log\_id int AI PK

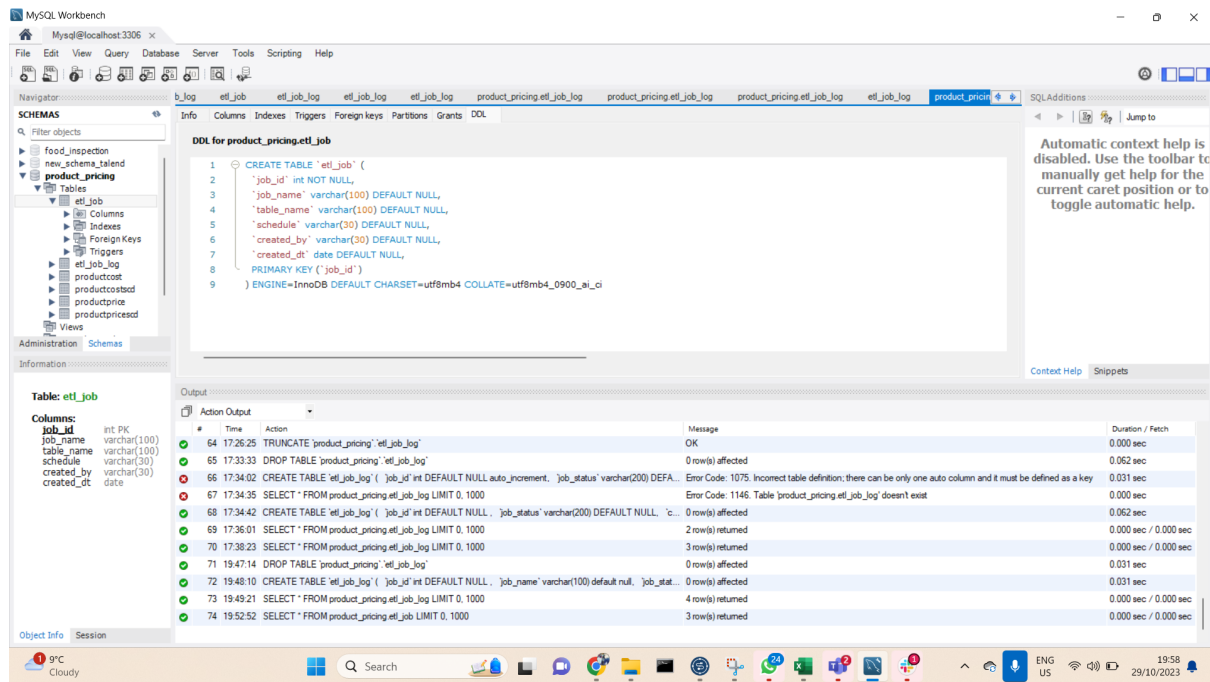
**Action Output**

#	Time	Action	Message	Duration / Fetch
63	17:19:32	SELECT * FROM product_pricing.etl_job_log LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
64	17:26:25	TRUNCATE 'product_pricing'.etl_job_log	OK	0.000 sec
65	17:33:33	DROP TABLE 'product_pricing'.etl_job_log	0 row(s) affected	0.062 sec
66	17:34:02	CREATE TABLE 'etl_job_log' ( 'job_id' int DEFAULT NULL auto_increment , 'job_status' varchar(200) DEFAULT NULL , 'job_name' varchar(100) DEFAULT NULL , 'table_name' varchar(100) DEFAULT NULL , 'schedule' varchar(30) DEFAULT NULL , 'created_by' varchar(30) DEFAULT NULL , 'created_dt' date DEFAULT NULL , PRIMARY KEY ('job_id')) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci	Error Code: 1075. Incorrect table definition; there can be only one auto column and it must be defined as a key	0.031 sec
67	17:34:35	SELECT * FROM product_pricing.etl_job_log LIMIT 0, 1000	Error Code: 1146. Table 'product_pricing.etl_job_log' doesn't exist	0.000 sec
68	17:34:42	CREATE TABLE 'etl_job_log' ( 'job_id' int DEFAULT NULL , 'job_status' varchar(200) DEFAULT NULL , 'job_name' varchar(100) DEFAULT NULL , 'table_name' varchar(100) DEFAULT NULL , 'schedule' varchar(30) DEFAULT NULL , 'created_by' varchar(30) DEFAULT NULL , 'created_dt' date DEFAULT NULL , PRIMARY KEY ('job_id')) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci	0 row(s) affected	0.062 sec
69	17:36:01	SELECT * FROM product_pricing.etl_job_log LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
70	17:38:23	SELECT * FROM product_pricing.etl_job_log LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
71	19:47:14	DROP TABLE 'product_pricing'.etl_job_log	0 row(s) affected	0.031 sec
72	19:48:10	CREATE TABLE 'etl_job_log' ( 'job_id' int DEFAULT NULL , 'job_status' varchar(200) DEFAULT NULL , 'job_name' varchar(100) DEFAULT NULL , 'table_name' varchar(100) DEFAULT NULL , 'schedule' varchar(30) DEFAULT NULL , 'created_by' varchar(30) DEFAULT NULL , 'created_dt' date DEFAULT NULL , PRIMARY KEY ('job_id')) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci	0 row(s) affected	0.031 sec
73	19:49:21	SELECT * FROM product_pricing.etl_job_log LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

DDL script:

Etl\_job

```
CREATE TABLE `etl_job` (  
  `job_id` int NOT NULL,  
  `job_name` varchar(100) DEFAULT NULL,  
  `table_name` varchar(100) DEFAULT NULL,  
  `schedule` varchar(30) DEFAULT NULL,  
  `created_by` varchar(30) DEFAULT NULL,  
  `created_dt` date DEFAULT NULL,  
  PRIMARY KEY (`job_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

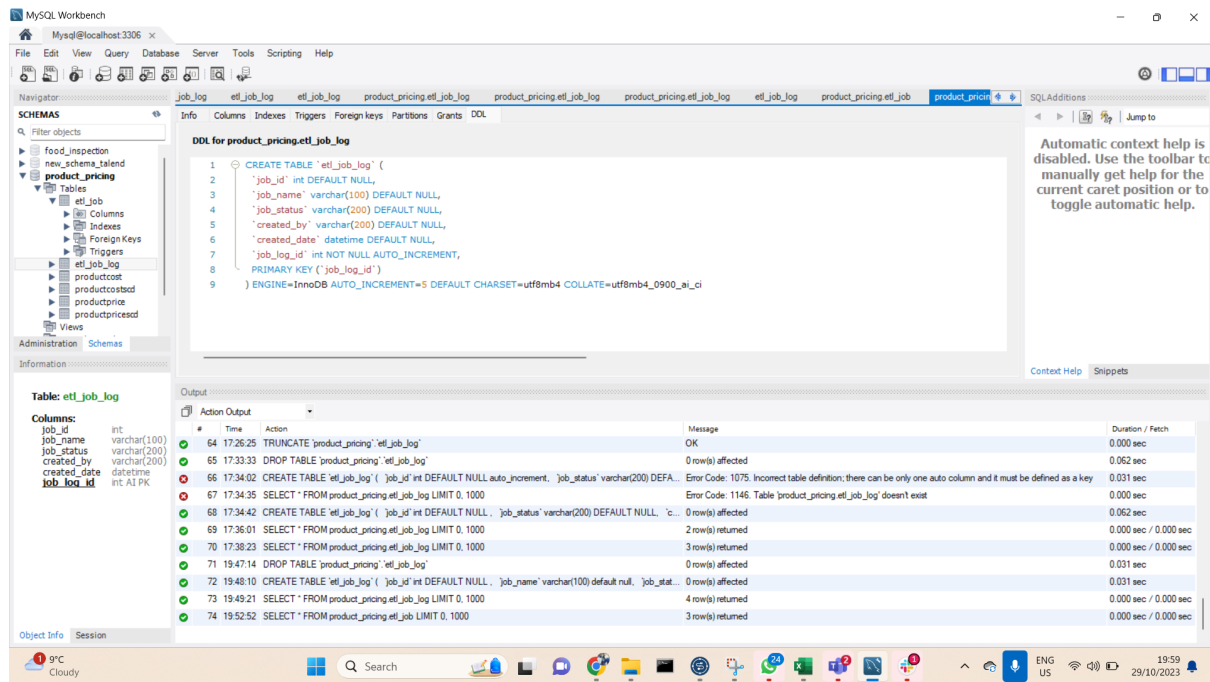


## Etl\_job\_log

```

CREATE TABLE `etl_job_log` (
  `job_id` int DEFAULT NULL,
  `job_name` varchar(100) DEFAULT NULL,
  `job_status` varchar(200) DEFAULT NULL,
  `created_by` varchar(200) DEFAULT NULL,
  `created_date` datetime DEFAULT NULL,
  `job_log_id` int NOT NULL AUTO_INCREMENT,
  PRIMARY KEY (`job_log_id`)
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

```

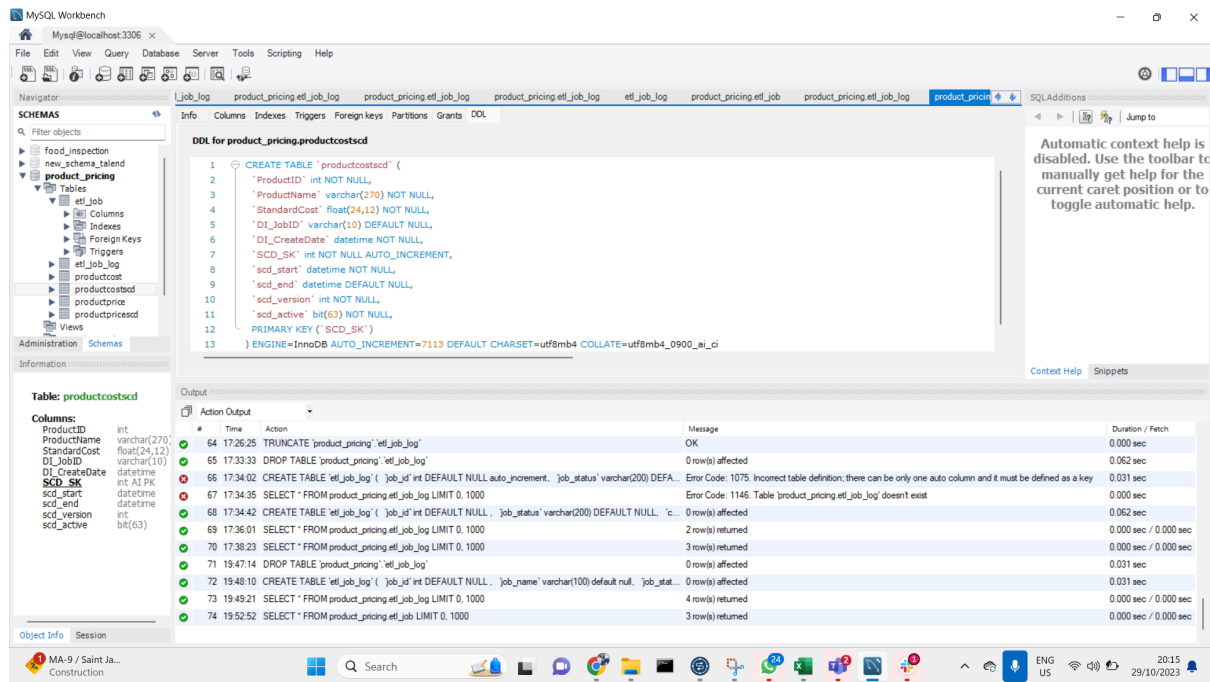


## productCostHistorySCD

```

CREATE TABLE `productcostscd` (
  `ProductID` int NOT NULL,
  `ProductName` varchar(270) NOT NULL,
  `StandardCost` float(24,12) NOT NULL,
  `DI_JobID` varchar(10) DEFAULT NULL,
  `DI_CreateDate` datetime NOT NULL,
  `SCD_SK` int NOT NULL AUTO_INCREMENT,
  `scd_start` datetime NOT NULL,
  `scd_end` datetime DEFAULT NULL,
  `scd_version` int NOT NULL,
  `scd_active` bit(63) NOT NULL,
  PRIMARY KEY (`SCD_SK`)
) ENGINE=InnoDB AUTO_INCREMENT=7113 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

```



## ProductPriceHistorySCD

```

CREATE TABLE `productpricescd` (
  `ProductID` int NOT NULL,
  `ProductName` varchar(255) DEFAULT NULL,
  `StartDate` datetime DEFAULT NULL,
  `ListPrice` float(255,5) DEFAULT NULL,
  `DI_JobID` varchar(10) DEFAULT NULL,
  `DI_CreateDate` datetime NOT NULL,
  `scd_start` datetime NOT NULL,
  `scd_end` datetime DEFAULT NULL,
  `scd_version` int NOT NULL,
  `scd_active` bit(64) NOT NULL,
  `SCD_SK` int NOT NULL AUTO_INCREMENT,
  PRIMARY KEY (`SCD_SK`)
) ENGINE=InnoDB AUTO_INCREMENT=2735 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci

```

[illegible]