

*Name- Aryan Sharma*

*Enrollment no – BT21GCS161*

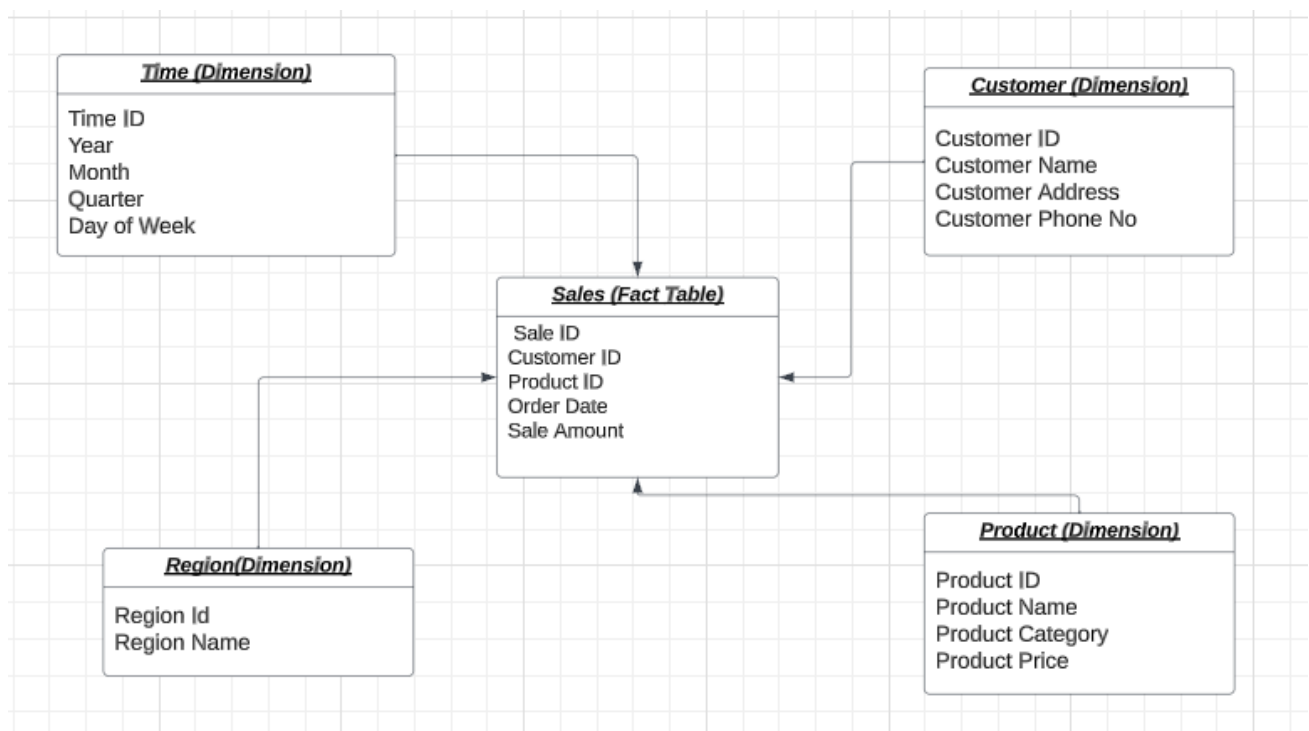
*Dimensional and NoSQL Databases*

*Assignment – 04(I)*

**Question -**

**Create table for star schema and having dimension which change the slowly dimension {ETL for TYPE 1 changing dimension}**

*Star Schema (Type-1)*



## Fact Table: (Sales Table)

The screenshot shows the Oracle SQL Developer interface with the 'SALES\_FACT' table selected in the 'Connections' pane. The table structure is displayed in the main window, showing columns: SALE\_ID, CUSTOMER\_ID, PRODUCT\_ID, ORDER\_DATE, and SALES\_AMOUNT. The table is located in the schema 'niit\_ETL1' under the 'niit\_ecommerce' database.

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
SALE_ID	NUMBER	No	(null)	1	1	(null)
CUSTOMER_ID	NUMBER	No	(null)	2	(null)	(null)
PRODUCT_ID	NUMBER	No	(null)	3	(null)	(null)
ORDER_DATE	DATE	No	(null)	4	(null)	(null)
SALES_AMOUNT	FLOAT	No	0.0	5	(null)	(null)

The screenshot shows the Oracle SQL Developer interface with the 'SALES\_FACT' table selected in the 'Connections' pane. The table data is displayed in the main window, showing two rows of data. The table is located in the schema 'niit\_ETL1' under the 'niit\_ecommerce' database.

SALE_ID	CUSTOMER_ID	PRODUCT_ID	ORDER_DATE	SALES_AMOUNT
1	101	124	252 18-SEP-23	500
2	102	125	253 16-SEP-23	650

## Dimension Table1: (Customer Table)

The screenshot shows the Oracle SQL Developer interface with the 'CUSTOMER\_DIMENSION' table selected in the 'Connections' pane. The table structure is displayed in the main window, showing columns: CUSTOMER\_ID, customer\_name, CUSTOMER\_ADDRESS, and Customer\_phone\_number. The table is located in the schema 'niit\_ETL1' under the 'niit\_ecommerce' database.

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
CUSTOMER_ID	NUMBER	No	(null)	1	1	(null)
customer_name	CHAR(50 BYTE)	No	(null)	2	(null)	(null)
CUSTOMER_ADDRESS	VARCHAR2(255 BYTE)	No	(null)	3	(null)	(null)
Customer_phone_number	NUMBER	No	(null)	4	(null)	(null)

Oracle SQL Developer : TABLE ETL1.CUSTOMER\_DIM

Connections: niit\_ecommerce, niit\_ETL1, Tables: CUSTOMER\_DIMENSION, PRODUCT\_DIMENSION, REGION\_DIMENSION, SALES\_FACT, TIME\_DIMENSION

CUSTOMER_ID	customer_name	CUSTOMER_ADDRESS	Customer_phone_number
1	124 Saksaham Verma	Old Delhi	9863264829
2	125 Rishabh Gupta	GP Road, Old Delhi	7970867595

### Dimension Table2: (Product Table)

Oracle SQL Developer : TABLE ETL1.PRODUCT\_DIMENSION@niit\_ETL1

Connections: niit\_ecommerce, niit\_ETL1, Tables: CUSTOMER\_DIMENSION, PRODUCT\_DIMENSION, REGION\_DIMENSION, SALES\_FACT, TIME\_DIMENSION

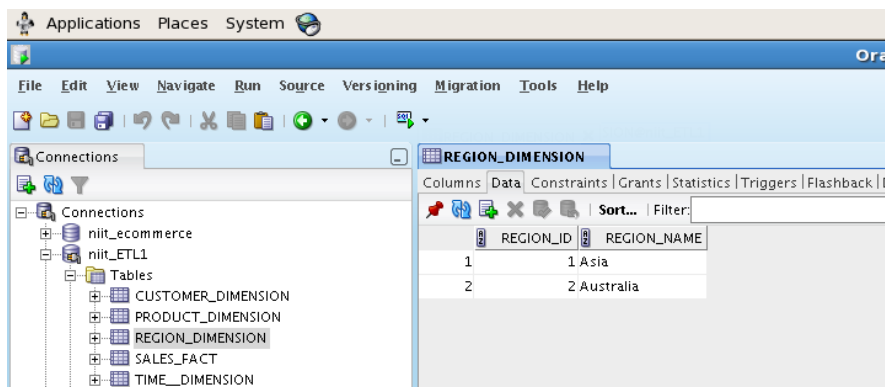
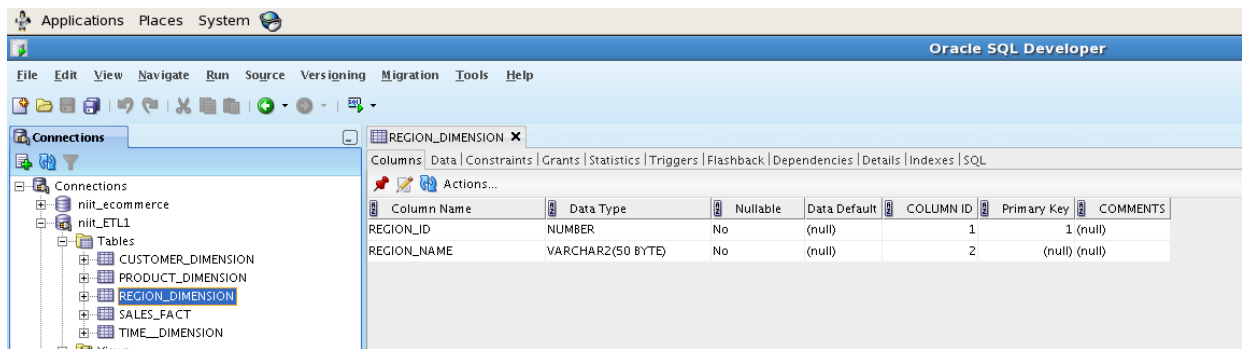
Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
PRODUCT_ID	NUMBER	No	(null)	1	1 (null)	
PRODUCT_NAME	VARCHAR2(20 BYTE)	No	(null)	2	(null) (null)	
PRODUCT_CATEGORY	VARCHAR2(20 BYTE)	No	(null)	3	(null) (null)	
PRODUCT_PRICE	NUMBER	No	(null)	4	(null) (null)	

Oracle SQL Developer

Connections: niit\_ecommerce, niit\_ETL1, Tables: CUSTOMER\_DIMENSION, PRODUCT\_DIMENSION, REGION\_DIMENSION, SALES\_FACT, TIME\_DIMENSION

	PRODUCT_ID	PRODUCT_NAME	PRODUCT_CATEGORY	PRODUCT_PRICE
1	252	T-shirt	Clothing	20
2	253	Shoes	Clothing	40

### Dimension Table3: (Region Table)



### Dimension Table4: (Time Table)

