

Name- Aryan Sharma

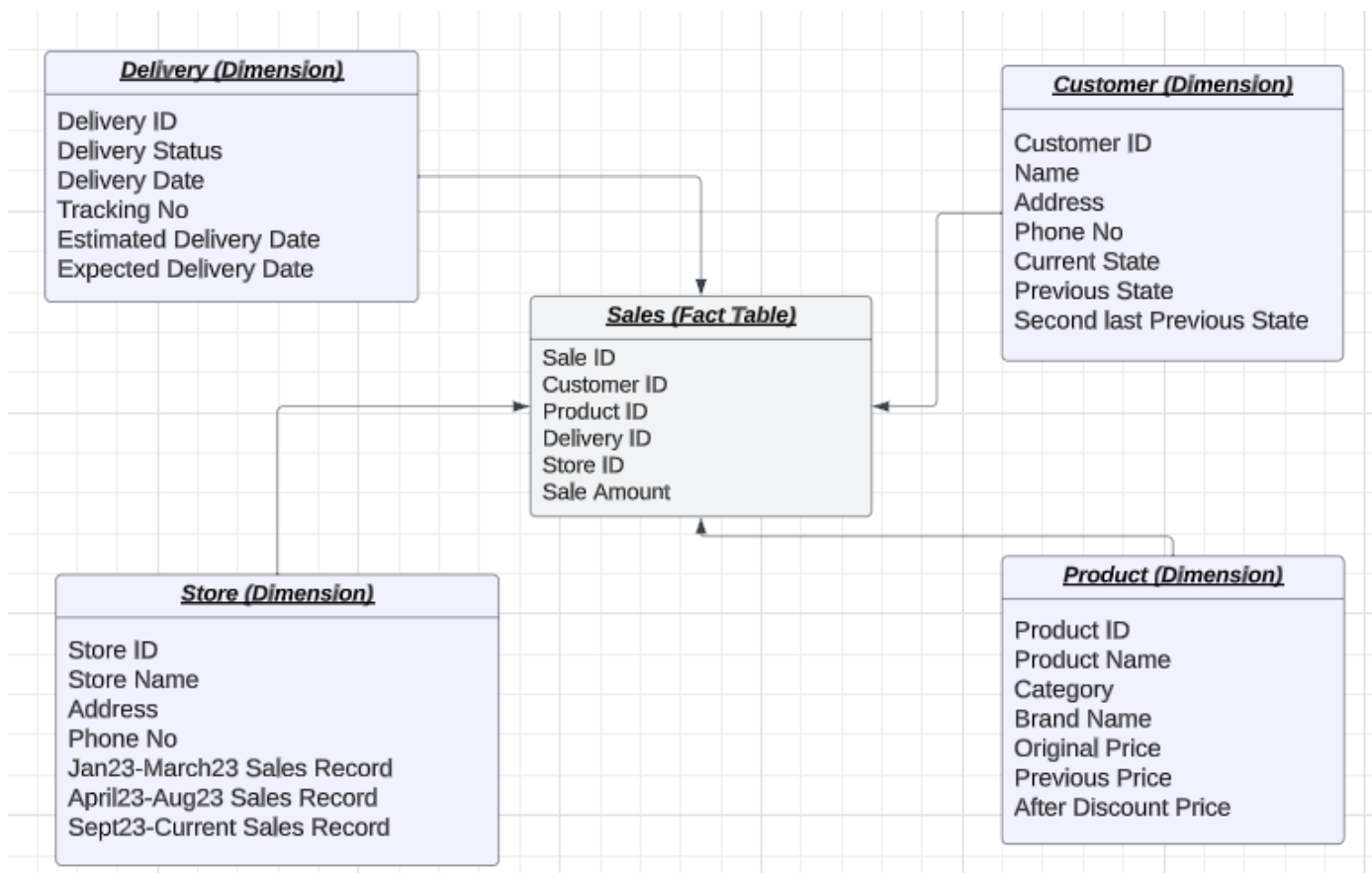
Enrollment no – BT21GCS161

Dimensional and NoSQL Databases

Assignment – 08

Question -

Create schema and having dimension which changing dimension {ETL for TYPE-3 changing dimension}



Fact Table: Sales

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	2 (null)	
PRODUCT ID	NUMBER	No	(null)	3	3 (null)	
STORE ID	NUMBER	No	(null)	4	4 (null)	
DELIVERY ID	NUMBER	No	(null)	5	5 (null)	
SALE AMOUNT	VARCHAR2(20 BYTE)	No	(null)	6	(null) (null)	

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DELIVERY_DIMENSION

PRODUCT_DIMENSION

SALE_FACT

STORE_DIMENSION

Columns Data Constraints Grants Statistics Triggers Flashback Dependencies Details Indexes SQL

	SALE ID	CUSTOMER ID	PRODUCT ID	STORE ID	DELIVERY ID	SALE AMOUNT
1	130	140	120	101	10	105
2	131	141	121	102	11	350

Dimension Table 1: Customer

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Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
CUSTOMER ID	NUMBER	No	(null)	1	1 (null)	
NAME	VARCHAR2(20 BYTE)	No	(null)	2	(null) (null)	
ADDRESS	VARCHAR2(20 BYTE)	No	(null)	3	(null) (null)	
PHONE NO	NUMBER	No	(null)	4	(null) (null)	
CURRENT STATE	VARCHAR2(20 BYTE)	No	(null)	5	(null) (null)	
PREVIOUS STATE	VARCHAR2(20 BYTE)	No	(null)	6	(null) (null)	
SECOND LAST PERVIOUS STATE	VARCHAR2(20 BYTE)	No	(null)	7	(null) (null)	

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	CUSTOMER ID	NAME	ADDRESS	PHONE NO	CURRENT STATE	PREVIOUS STATE	SECOND LAST PERVIOUS STATE
1	140	Aryan	Kalyan	8850376832	Maharashtra	UP	Bangalore
2	141	Raja	Thane	9937749274	Maharashtra	Delhi	Bihar

Dimension Table 2: Delivery

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Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
DELIVERY ID	NUMBER	No	(null)	1	1 (null)	
DELIVERY STATUS	VARCHAR2(20 BYTE)	No	(null)	2	(null) delivery statu...	
DELIVERY DATE	DATE	No	(null)	3	(null) (null)	
ESTIMATED DELIVERY DATE	DATE	No	(null)	4	(null) (null)	
EXPECTED DELIVERY DATE	DATE	No	(null)	5	(null) (null)	
TRACKING NO	VARCHAR2(20 BYTE)	No	(null)	6	(null) (null)	

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DELIVERY_DIMENSION

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	DELIVERY ID	DELIVERY STATUS	DELIVERY DATE	ESTIMATED DELIVERY DATE	EXPECTED DELIVERY DATE	TRACKING NO
1	10	Shipped	12-OCT-23	11-OCT-23	12-OCT-23	114140132
2	11	Shipped	12-OCT-23	13-OCT-23	15-OCT-23	235912412

Dimension Table 3: Product

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Oracle SQL Developer : TABLE ETL3.PRODUCT_DIMENSION@

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PRODUCT_DIMENSION

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Actions...

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)	
CATEGORY	VARCHAR2(20 BYTE)	No	(null)	3	(null) (null)	
BRAND NAME	VARCHAR2(20 BYTE)	No	(null)	4	(null) (null)	
ORIGINAL PRICE	NUMBER	No	(null)	5	(null) (null)	
PREVIOUS PRICE	NUMBER	No	(null)	6	(null) (null)	
AFTER DISCOUNT PRICE	NUMBER	No	(null)	7	(null) (null)	

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PRODUCT_DIMENSION

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	PRODUCT ID	PRODUCT NAME	CATEGORY	BRAND NAME	ORIGINAL PRICE	PREVIOUS PRICE	AFTER DISCOUNT PRICE
1	120	Maggi	Food	Nestle	30	35	5
2	121	Perfume	Perfume	Wild Stone	350	360	10

Dimension Table 4: Store

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STORE_DIMENSION

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Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
STORE ID	NUMBER	No	(null)	1	1 (null)	
STORE NAME	VARCHAR2(20 BYTE)	No	(null)	2	(null) (null)	
ADDRESS	VARCHAR2(20 BYTE)	No	(null)	3	(null) (null)	
PHONE NO	NUMBER	No	(null)	4	(null) (null)	
JAN2023-APRIL2023 SALES RECORD	NUMBER	No	(null)	5	(null) (null)	
APRIL2023-AUG2023 SALES RECORD	NUMBER	No	(null)	6	(null) (null)	
SEPT2023-CURRENT SALES RECORD	NUMBER	No	(null)	7	(null) (null)	

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Sort...

Filter

STORE ID	STORE NAME	ADDRESS	PHONE NO	JAN2023-APRIL2023 SALES RECORD	APRIL2023-AUG2023 SALES RECORD	SEPT2023-CURRENT SALES RECORD
1	101 Nestle	Delhi	9960765259	80000	90000	150000
2	102 Amazon	Pune	7774885259	900000	100000	120000