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Enrollment no – BT21GCS161
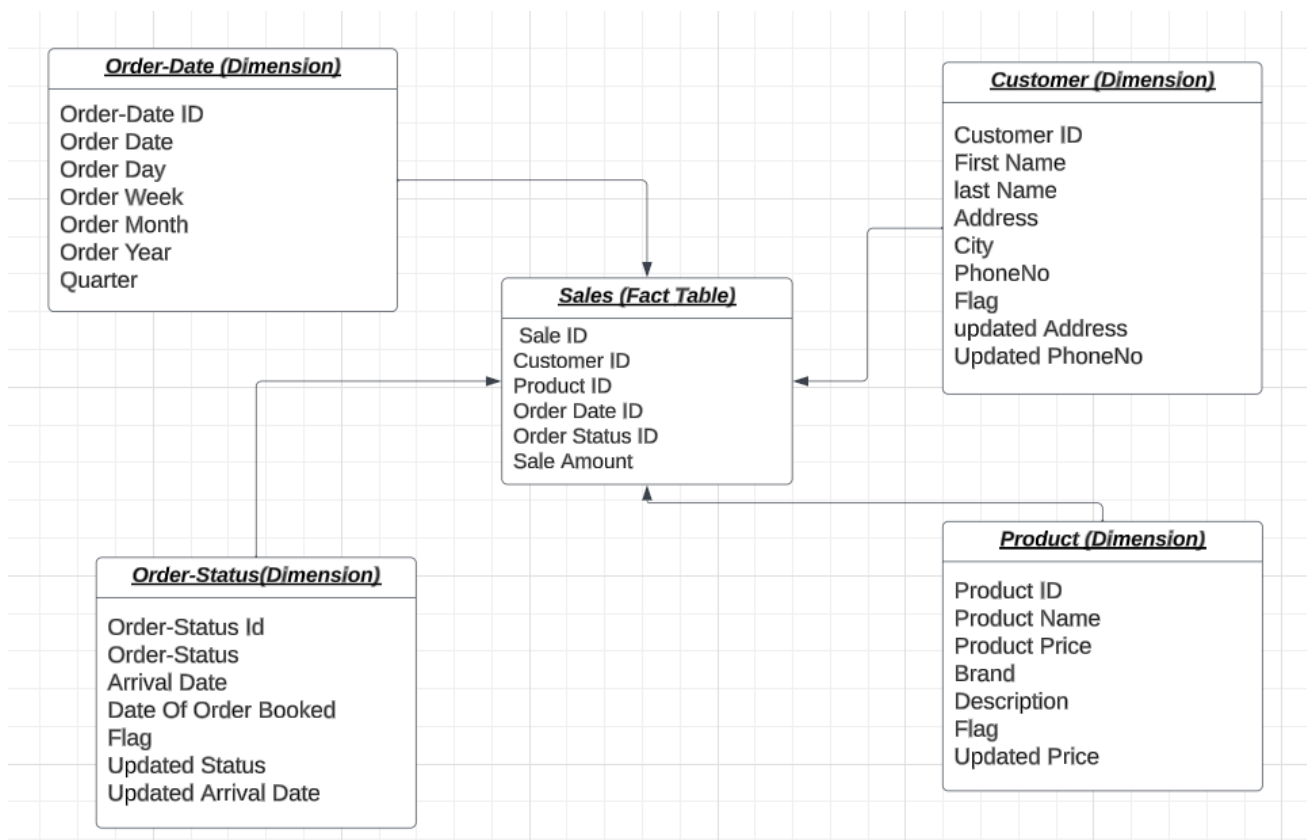
Dimensional and NoSQL Databases

Assignment – 04(II)

Question -

Create table for star schema and having dimension which change the slowly dimension {ETL for TYPE-2 changing dimension}

Star Schema (Type-2)

Order-Date (Dimension)

Order-Date ID
Order Date
Order Day
Order Week
Order Month
Order Year
Quarter

Customer (Dimension)

Customer ID
First Name
last Name
Address
City
PhoneNo
Flag
updated Address
Updated PhoneNo

Sales (Fact Table)

Sale ID
Customer ID
Product ID
Order Date ID
Order Status ID
Sale Amount

Order-Status(Dimension)

Order-Status Id
Order-Status
Arrival Date
Date Of Order Booked
Flag
Updated Status
Updated Arrival Date

Product (Dimension)

Product ID
Product Name
Product Price
Brand
Description
Flag
Updated Price

Fact Table (Sales Table)

Oracle SQL Developer : TABLE ETL2.SALE_FACT@niit_ETL2

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Connections

SALE_FACT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
SALES 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_ID	NUMBER	No	(null)	4	(null)	(null)
ORDER_AMOUNT	NUMBER	No	(null)	5	(null)	(null)
ORDER_STATUS_ID	NUMBER	Yes	(null)	6	(null)	(null)

Connections
- niit_ecommerce
- niit_ETL1
- niit_ETL2
  - Tables
    - CUSTOMER_DIMENSION
    - ORDER_DATE_DIMENSION
    - ORDER_STATUS_DIMENSION
    - PRODUCT_DIMENSION
    - SALE_FACT
  - Views

Oracle SQL Developer : TABLE ETL2.SALE_FACT@niit_ETL2

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SALE_FACT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Sort... | Filter:

	SALES ID	CUSTOMER ID	PRODUCT ID	ORDER_DATE_ID	ORDER_AMOUNT	ORDER_STATUS_ID
1	1	80	332	35	5000	23
2	2	161	143	27	3500	34

Connections
- niit_ecommerce
- niit_ETL1
- niit_ETL2
  - Tables
    - CUSTOMER_DIMENSION
    - ORDER_DATE_DIMENSION
    - ORDER_STATUS_DIMENSION
    - PRODUCT_DIMENSION
    - SALE_FACT

Dimension Table1 (Customer Table)

Applications Places System

Oracle SQL Developer

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CUSTOMER_DIMENSION

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
CUSTOMER ID	NUMBER	No	(null)	1	1	(null)
FIRST NAME	VARCHAR2(20 BYTE)	No	(null)	2	(null)	(null)
LAST NAME	VARCHAR2(20 BYTE)	No	(null)	3	(null)	(null)
ADDRESS	VARCHAR2(20 BYTE)	No	(null)	4	(null)	(null)
CITY	VARCHAR2(20 BYTE)	No	(null)	5	(null)	(null)
FLAG	NUMBER	No	0	6	(null)	(null)
UPDATED ADDRESS	VARCHAR2(20 BYTE)	Yes	(null)	7	(null)	(null)
PHONE NO	NUMBER	No	(null)	8	(null)	(null)
UPDATED PHONE NO	NUMBER	Yes	(null)	9	(null)	(null)

Connections
- niit_ecommerce
- niit_ETL1
- niit_ETL2
  - Tables
    - CUSTOMER_DIMENSION
    - ORDER_DATE_DIMENSION
    - ORDER_STATUS_DIMENSION
    - PRODUCT_DIMENSION
    - SALE_FACT
  - Views
  - Indexes
  - Packages
  - Procedures

Dimension Table2 (Order-Date Table)

Dimension Table3 (Order-Status Table)

Applications   Places   System

ORDER_STATUS_DIMENSION

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Actions...

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
ORDER_STATUS_ID	NUMBER	No	(null)	1	1	(null)
ORDER_STATUS	VARCHAR2(20 BYTE)	No	(null)	2	(null)	(null)
ARRIVAL_DTAE	DATE	No	(null)	3	(null)	(null)
DATE OF ORDER BOOKED	DATE	No	(null)	4	(null)	(null)
FLAG	NUMBER	No	(null)	5	(null)	(null)
UPDATED ORDER_STATUS	VARCHAR2(20 BYTE)	Yes	(null)	6	(null)	(null)
UPDATED ARRIVAL DATE	DATE	Yes	(null)	7	(null)	(null)

Applications   Places   System

Oracle SQL Developer : TABLE ETL2.ORDER_STATUS_DIMENSION@niit_ETL2

ORDER_STATUS_DIMENSION

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Sort... | Filter:

	ORDER_STATUS_ID	ORDER_STATUS	ARRIVAL_DTAE	DATE OF ORDER BOOKED	FLAG	UPDATED ORDER_STATUS	UPDATED ARRIVAL DATE
1	23	shipped	27-SEP-23	21-SEP-23	0	Delivered	27-SEP-23
2	34	order Booked	27-SEP-23	27-SEP-23	1	cancelled	27-SEP-23
3	35	Delivered	27-SEP-23	24-SEP-23	1	Returned	28-SEP-23

Dimension Table4 (Product Table)

Applications   Places   System

Oracle SQL Developer : TABLE ETL2.PRODUCT_DIMENSION@

PRODUCT_DIMENSION

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

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)
DESCRIPTION	VARCHAR2(255 BYTE)	No	(null)	3	(null)	(null)
PRICE	VARCHAR2(20 BYTE)	No	(null)	4	(null)	(null)
BRAND	VARCHAR2(20 BYTE)	No	(null)	5	(null)	(null)
FLAG	NUMBER	No	0	6	(null)	(null)
UPDATED PRICE	NUMBER	Yes	(null)	7	(null)	(null)

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Oracle SQL Developer : TABLE ETL2.PRODUCT_DIMENSION@niit_ETL2

PRODUCT_DIMENSION

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Indexes | SQL

Sort... | Filter:

	PRODUCT ID	PRODUCT NAME	DESCRIPTION	PRICE	BRAND	FLAG	UPDATED PRICE
1	332	Mouse	Laser sensor, one can achieve High DPI, means sensitivity of the gaming mouse can be increased. It does not limit to 3 buttons like normal mouse	5000	Razer	0	(null)
2	143	Peanut Butter	Myfitness Peanut Butter, 500gm	390	Myfitness	1	350
3	42	Book	Classmate notebook	100	Classmate	1	85