

Name- Aryan Sharma

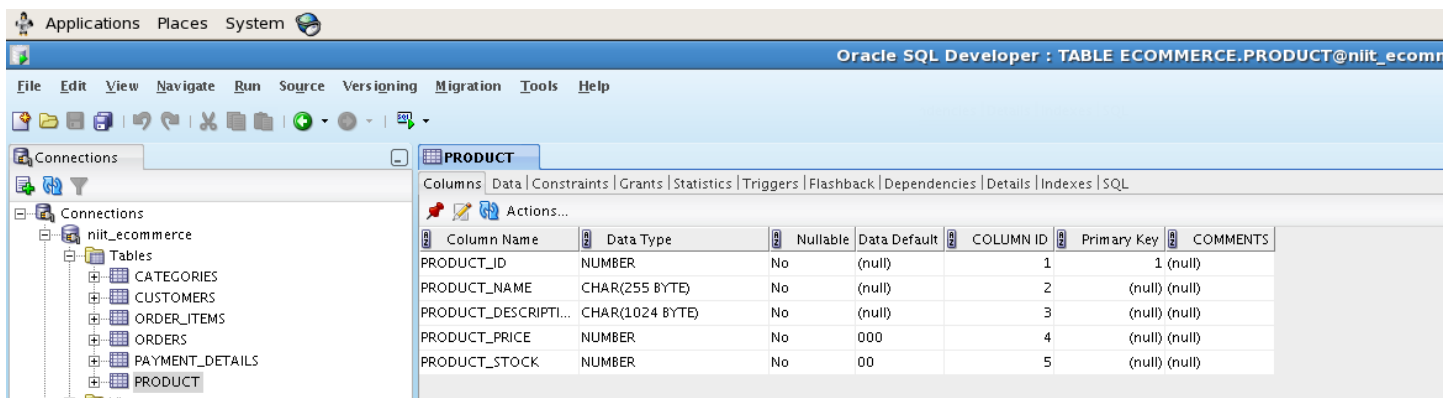
Enrollment no – BT21GCS161

Dimensional and NoSQL Databases

Assignment – 02(II)

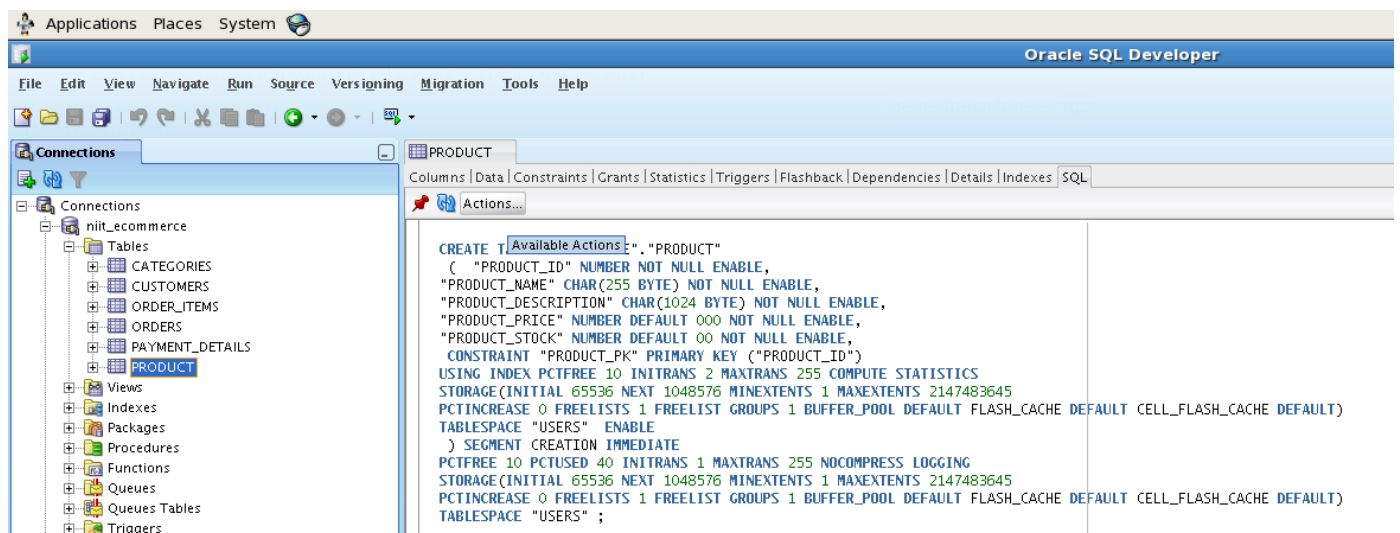
Question – Populate Schema in Oracle Instance e-commerce

Table: Product



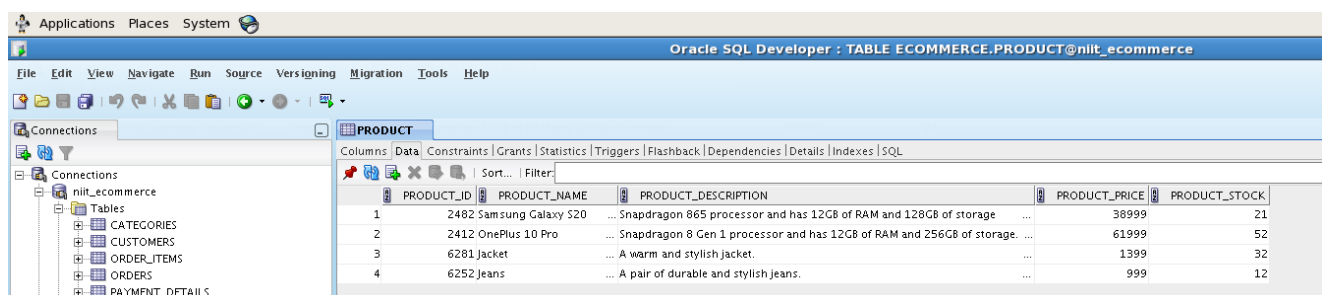
The screenshot shows the Oracle SQL Developer interface with the 'PRODUCT' table selected in the 'Connections' pane. The 'Columns' tab is active, displaying the following table structure:

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
PRODUCT_ID	NUMBER	No	(null)	1	1 (null)	
PRODUCT_NAME	CHAR(255 BYTE)	No	(null)	2	(null) (null)	
PRODUCT_DESCRIPTOR...	CHAR(1024 BYTE)	No	(null)	3	(null) (null)	
PRODUCT_PRICE	NUMBER	No	000	4	(null) (null)	
PRODUCT_STOCK	NUMBER	No	00	5	(null) (null)	



The screenshot shows the 'SQL' tab in Oracle SQL Developer, displaying the SQL script to create the 'PRODUCT' table:

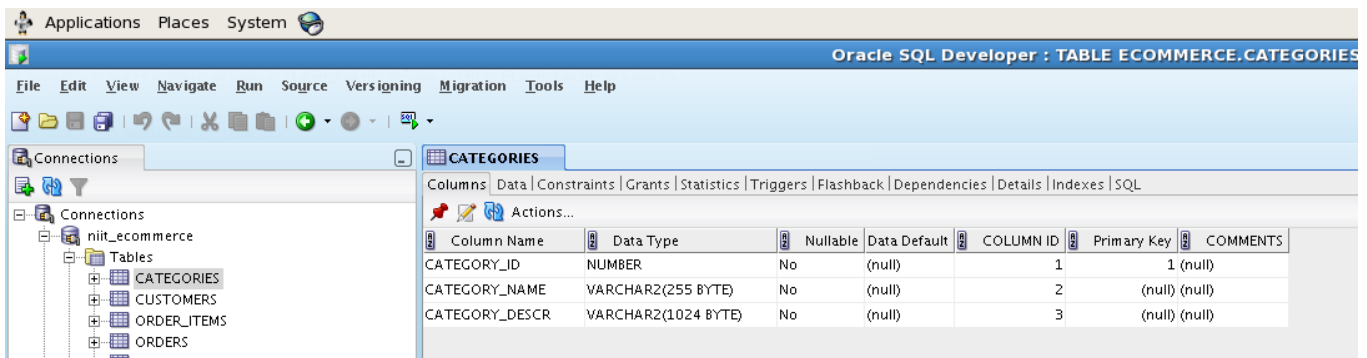
```
CREATE TABLE "PRODUCT"
(
  "PRODUCT_ID" NUMBER NOT NULL ENABLE,
  "PRODUCT_NAME" CHAR(255 BYTE) NOT NULL ENABLE,
  "PRODUCT_DESCRIPTION" CHAR(1024 BYTE) NOT NULL ENABLE,
  "PRODUCT_PRICE" NUMBER DEFAULT 000 NOT NULL ENABLE,
  "PRODUCT_STOCK" NUMBER DEFAULT 00 NOT NULL ENABLE,
  CONSTRAINT "PRODUCT_PK" PRIMARY KEY ("PRODUCT_ID")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
  TABLESPACE "USERS" ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```



The screenshot shows the 'Data' tab in Oracle SQL Developer, displaying the data populated in the 'PRODUCT' table:

PRODUCT_ID	PRODUCT_NAME	PRODUCT_DESCRIPTION	PRODUCT_PRICE	PRODUCT_STOCK
1	2482 Samsung Galaxy S20	... Snapdragon 865 processor and has 12GB of RAM and 128GB of storage	38999	21
2	2412 OnePlus 10 Pro	... Snapdragon 8 Gen 1 processor and has 12GB of RAM and 256GB of storage.	61999	52
3	6281 Jacket	... A warm and stylish jacket.	1399	32
4	6252 Jeans	... A pair of durable and stylish jeans.	999	12

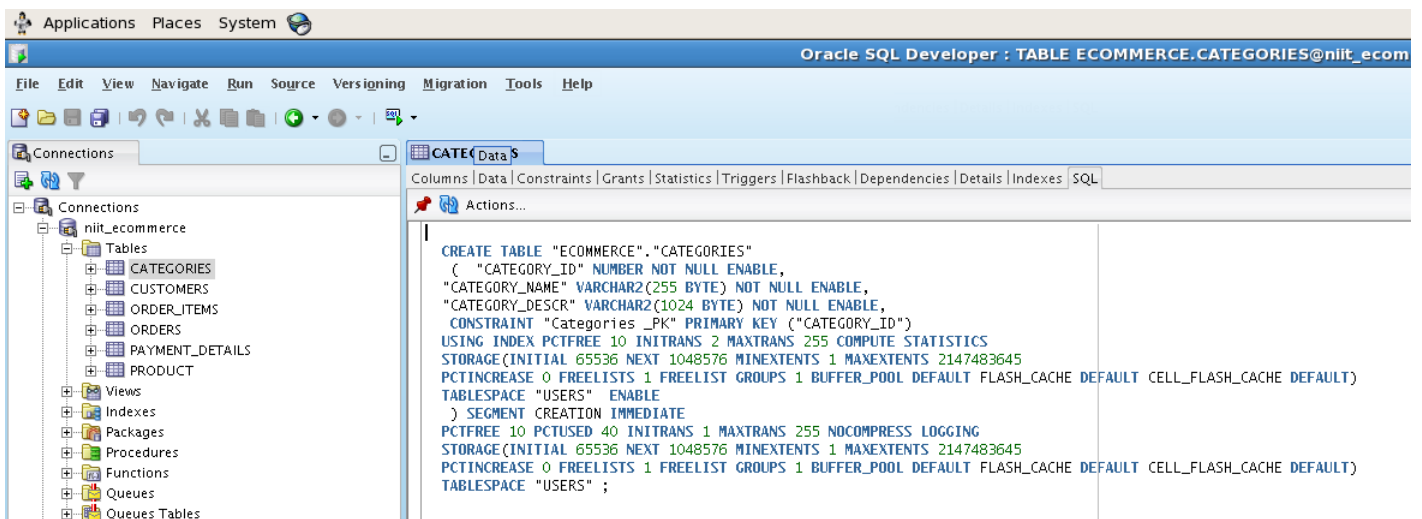
Table: Categories



Oracle SQL Developer : TABLE ECOMMERCE.CATEGORIES

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

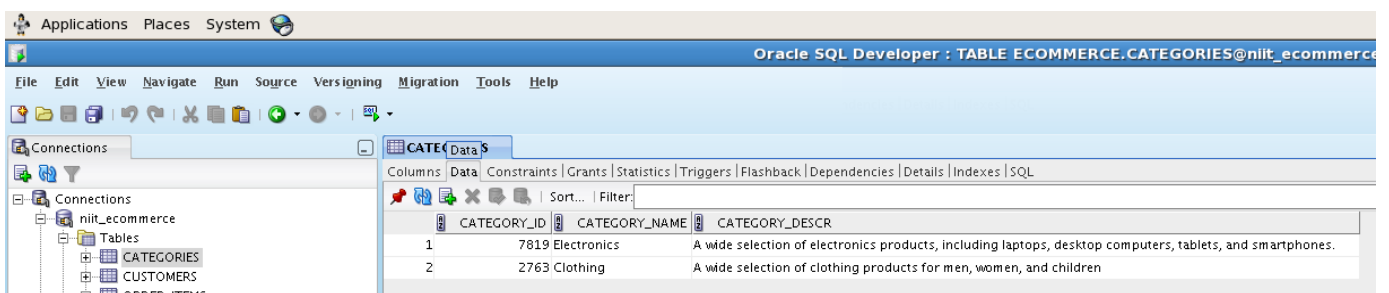
Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
CATEGORY_ID	NUMBER	No	(null)	1	1 (null)	
CATEGORY_NAME	VARCHAR2(255 BYTE)	No	(null)	2	(null) (null)	
CATEGORY_DESCR	VARCHAR2(1024 BYTE)	No	(null)	3	(null) (null)	



Oracle SQL Developer : TABLE ECOMMERCE.CATEGORIES@niit_ecom

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

```
CREATE TABLE "ECOMMERCE"."CATEGORIES"
(
  "CATEGORY_ID" NUMBER NOT NULL ENABLE,
  "CATEGORY_NAME" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  "CATEGORY_DESCR" VARCHAR2(1024 BYTE) NOT NULL ENABLE,
  CONSTRAINT "Categories_PK" PRIMARY KEY ("CATEGORY_ID")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
  TABLESPACE "USERS"  ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESSION LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```



Oracle SQL Developer : TABLE ECOMMERCE.CATEGORIES@niit_ecommerce

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

CATEGORY_ID	CATEGORY_NAME	CATEGORY_DESCR
1	7819 Electronics	A wide selection of electronics products, including laptops, desktop computers, tablets, and smartphones.
2	2763 Clothing	A wide selection of clothing products for men, women, and children

Table: Customers

Oracle SQL Developer : TABLE ECOMMERCE.CUSTOMERS

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

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
CUSTOMER_ID	NUMBER	No	(null)	1	1 (null)	
FIRST_NAME	VARCHAR2(255 BYTE)	No	(null)	2	(null) (null)	
LAST_NAME	VARCHAR2(255 BYTE)	No	(null)	3	(null) (null)	
EMAIL_ID	VARCHAR2(255 BYTE)	No	(null)	4	(null) (null)	
SHIPPING_ADDRESS	VARCHAR2(1024 BYTE)	No	(null)	5	(null) (null)	
BILLING_ADDRESS	VARCHAR2(1024 BYTE)	No	(null)	6	(null) (null)	

Oracle SQL Developer

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

```
CREATE TABLE "ECOMMERCE"."CUSTOMERS"
(
  "CUSTOMER_ID" NUMBER NOT NULL ENABLE,
  "FIRST_NAME" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  "LAST_NAME" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  "EMAIL_ID" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  "SHIPPING_ADDRESS" VARCHAR2(1024 BYTE) NOT NULL ENABLE,
  "BILLING_ADDRESS" VARCHAR2(1024 BYTE) NOT NULL ENABLE,
  CONSTRAINT "CUSTOMERS_PK" PRIMARY KEY ("CUSTOMER_ID")
)
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```

Oracle SQL Developer : TABLE ECOMMERCE.CUSTOMERS@niit_ecommerce

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

CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL_ID	SHIPPING_ADDRESS	BILLING_ADDRESS
1	143 Soham	Patil	Soham.Patil431@gmail.com	Mumbai, Maharashtra,India	Mumbai, Maharashtra,India
2	262 Prerna	Shah	Prerna.241@gmail.com	Thane, Maharashtra,India	Thane, Maharashtra,India

Table: Order

Applications Places System

Oracle SQL Developer : TABLE ECOMMERCE.ORDERS

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Connections

Columns

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
ORDER_ID	NUMBER	No	(null)	1	1 (null)	
CUSTOMER_ID	NUMBER	No	(null)	2	(null) (null)	
ORDER_DATE	DATE	No	(null)	3	(null) (null)	
ORDER_TOTAL	NUMBER(10,2)	No	0	4	(null) (null)	
ORDER_STATUS	VARCHAR2(255 BYTE)	No	(null)	5	(null) (null)	

Applications Places System

Oracle SQL Developer

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Connections

Columns

```
CREATE TABLE "ECOMMERCE"."ORDERS"
(
  "ORDER_ID" NUMBER NOT NULL ENABLE,
  "CUSTOMER_ID" NUMBER NOT NULL ENABLE,
  "ORDER_DATE" DATE NOT NULL ENABLE,
  "ORDER_TOTAL" NUMBER(10,2) DEFAULT 0 NOT NULL ENABLE,
  "ORDER_STATUS" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  CONSTRAINT "ORDERS_PK" PRIMARY KEY ("ORDER_ID")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
  TABLESPACE "USERS"  ENABLE,
  CONSTRAINT "ORDERS_CUSTOMERS_FK1" FOREIGN KEY ("CUSTOMER_ID")
  REFERENCES "ECOMMERCE"."CUSTOMERS" ("CUSTOMER_ID") ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```

Applications Places System

Oracle SQL Developer : TABLE E

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Connections

ORDERS

ORDER_ID	CUSTOMER_ID	ORDER_DATE	ORDER_TOTAL	ORDER_STATUS
1	8164	143 15-SEP-23	999	Processing
2	5381	262 17-SEP-23	38999	Pending

Table: Order Items

Oracle SQL Developer : TABLE ECOMMERCE.ORDER_ITEMS

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
ORDER_ITEM_ID	NUMBER	No	(null)	1	1 (null)	
ORDER_ID	NUMBER	No	(null)	2	(null) (null)	
PRODUCT_ID	NUMBER	No	(null)	3	(null) (null)	
QUANTITY	NUMBER	No	0	4	(null) (null)	
PRICE	NUMBER(10,2)	No	0	5	(null) (null)	

Oracle SQL Developer : TABLE ECOMMERCE.ORDER_ITEMS@nilit_econ

```
CREATE TABLE "ECOMMERCE"."ORDER_ITEMS"
( "ORDER_ITEM_ID" NUMBER NOT NULL ENABLE,
"ORDER_ID" NUMBER NOT NULL ENABLE,
"PRODUCT_ID" NUMBER NOT NULL ENABLE,
"QUANTITY" NUMBER DEFAULT 0 NOT NULL ENABLE,
"PRICE" NUMBER(10,2) DEFAULT 0 NOT NULL ENABLE,
CONSTRAINT "ORDER_ITEMS_PK" PRIMARY KEY ("ORDER_ITEM_ID")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ENABLE,
CONSTRAINT "ORDER_ITEMS_ORDERS_FK1" FOREIGN KEY ("ORDER_ID")
REFERENCES "ECOMMERCE"."ORDERS" ("ORDER_ID") ENABLE,
CONSTRAINT "ORDER_ITEMS_PRODUCT_FK1" FOREIGN KEY ("PRODUCT_ID")
REFERENCES "ECOMMERCE"."PRODUCT" ("PRODUCT_ID") ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESSION LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```

Applications

Places

System

Oracle SQL Developer : TABLE ECOMMERCE

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Table: Payment Details

Oracle SQL Developer

Connections

niit_ecommerce

Tables

CATEGORIES

CUSTOMERS

ORDER_ITEMS

ORDERS

PAYMENT_DETAILS

PRODUCT

Column Name	Data Type	Nullable	Data Default	COLUMN ID	Primary Key	COMMENTS
PAYMENT_ID	NUMBER	No	(null)	1	1 (null)	
ORDER_ID	NUMBER	No	(null)	2	(null) (null)	
PAYMENT_METHOD	VARCHAR2(255 BYTE)	No	(null)	3	(null) (null)	
PAYMENT_AMOUNT	NUMBER(10,2)	No	00	4	(null) (null)	
PAYMENT_DATE	DATE	No	(null)	5	(null) (null)	

Oracle SQL Developer : TABLE ECOMMERCE.PAYMENT_DETAILS@niit_ecom

Connections

niit_ecommerce

Tables

CATEGORIES

CUSTOMERS

ORDER_ITEMS

ORDERS

PAYMENT_DETAILS

PRODUCT

Views

Indexes

Packages

Procedures

Functions

Queues

Queues Tables

Triggers

Types

Sequences

```
CREATE TABLE "ECOMMERCE"."PAYMENT_DETAILS"
(
  "PAYMENT_ID" NUMBER NOT NULL ENABLE,
  "ORDER_ID" NUMBER NOT NULL ENABLE,
  "PAYMENT_METHOD" VARCHAR2(255 BYTE) NOT NULL ENABLE,
  "PAYMENT_AMOUNT" NUMBER(10,2) DEFAULT 00 NOT NULL ENABLE,
  "PAYMENT_DATE" DATE NOT NULL ENABLE,
  CONSTRAINT "PAYMENT_DETAILS_PK" PRIMARY KEY ("PAYMENT_ID")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
  TABLESPACE "USERS" ENABLE,
  CONSTRAINT "PAYMENT_DETAILS_ORDERS_FK1" FOREIGN KEY ("ORDER_ID")
  REFERENCES "ECOMMERCE"."ORDERS" ("ORDER_ID") ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ;
```

Oracle SQL Developer : TABLE ECOMMERCE

Connections

niit_ecommerce

Tables

CATEGORIES

CUSTOMERS

ORDER_ITEMS

	PAYMENT_ID	ORDER_ID	PAYMENT_METHOD	PAYMENT_AMOUNT	PAYMENT_DATE
1	7184	8164	PhonePay	38999	15-SEP-23
2	9124	5381	Credit Card	999	17-SEP-23

About -

- **Products Table:**

Stores information about the products that are sold in the store, such as the product name, description, price, quantity in stock.

- **Categories Table:**

Stores information about the different categories of products that are sold in the store, such as the category name, description.

- **Customers Table:**

Stores information about the customers who purchase products from the store, such as the customer name, email address, shipping address, and billing address.

- **Orders Table:**

Stores information about the orders that are placed by customers in the store, such as the customer who placed the order, the order date, the order total, and the order status.

- **Order Items Table:**

Stores information about the individual items that are included in each order, such as the order, product, quantity, and price.

- **Payment Details Table:**

Stores information about the payments that are made by customers for their orders, such as the order, payment method, payment amount, and payment date.

Primary Key and Foreign Key

<i>Table</i>	<i>Primary Key</i>	<i>Foreign Key</i>
<i>Products</i>	Product_Id	
<i>Categories</i>	Category_Id	
<i>Customers</i>	Customer_Id	
<i>Orders</i>	Order_Id	Customer_Id
<i>Order Items</i>	Order_Item_Id	Order_Id And Product_Id
<i>Payment Details</i>	Payment_Id	Order_Id