Phase 6

Toronto Metropolitan University

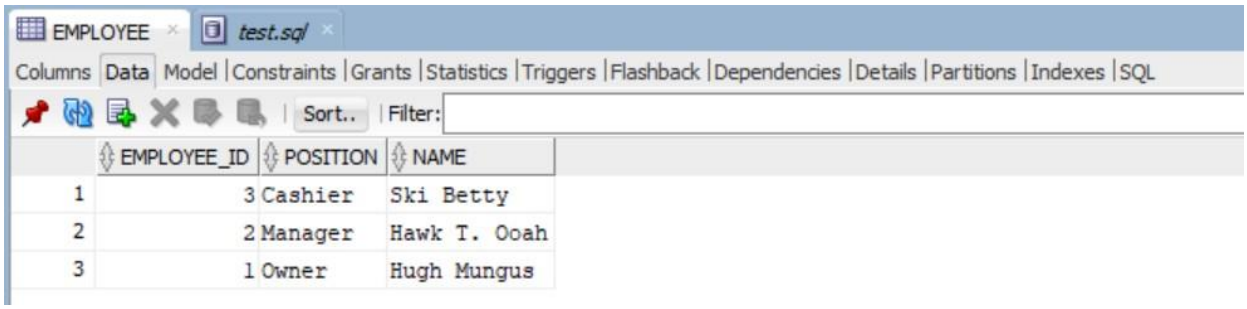
Simon Lin (501103322),
Dylan Ha (501056670),
Enes Polat (501061594)

CPS510 - Database Systems

Point of Sale System for Shopper Drug Marts

Functional Dependencies:

Employee Table:

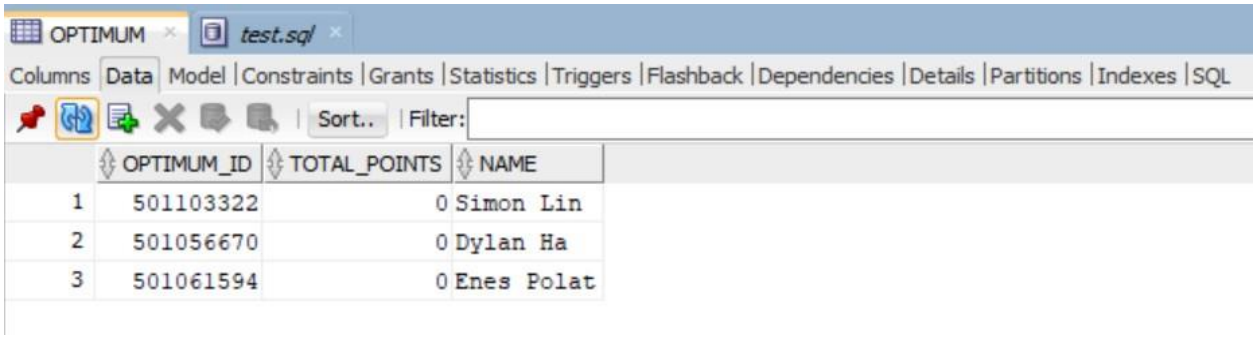


	EMPLOYEE_ID	POSITION	NAME
1	3	Cashier	Ski Betty
2	2	Manager	Hawk T. Ooah
3	1	Owner	Hugh Mungus

{Employee_ID} → Position

{Employee_ID} → Name

Optimum Table:

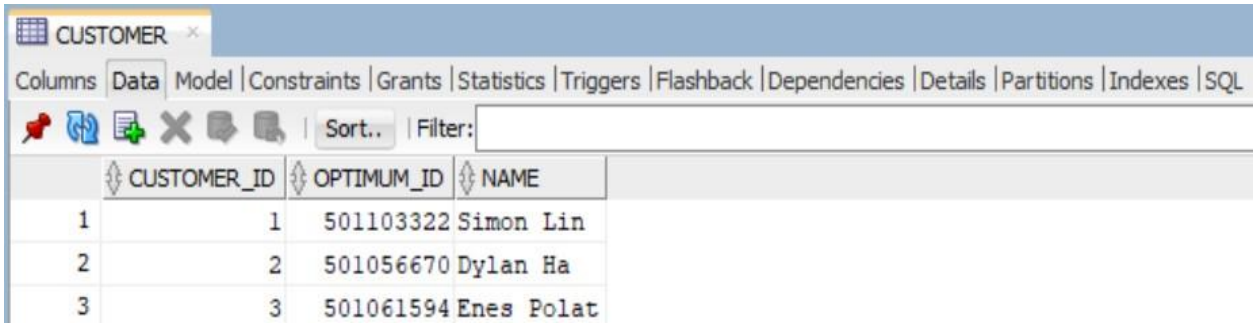


	OPTIMUM_ID	TOTAL_POINTS	NAME
1	501103322	0	Simon Lin
2	501056670	0	Dylan Ha
3	501061594	0	Enes Polat

{Employee_ID} → Total_Points

{Employee_ID} → Name

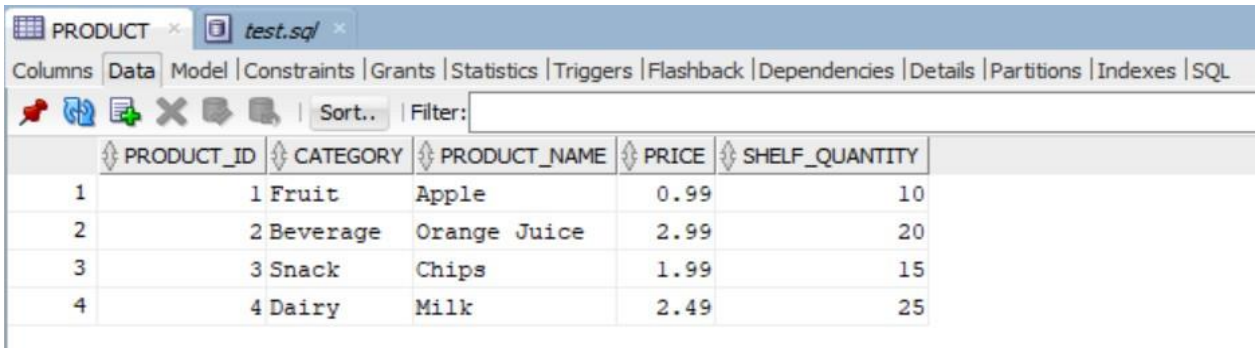
Customer Table:



	CUSTOMER_ID	OPTIMUM_ID	NAME
1	1	501103322	Simon Lin
2	2	501056670	Dylan Ha
3	3	501061594	Enes Polat

{Customer_ID, Optimum_ID} → Name

Product Table:


PRODUCT | test.sql

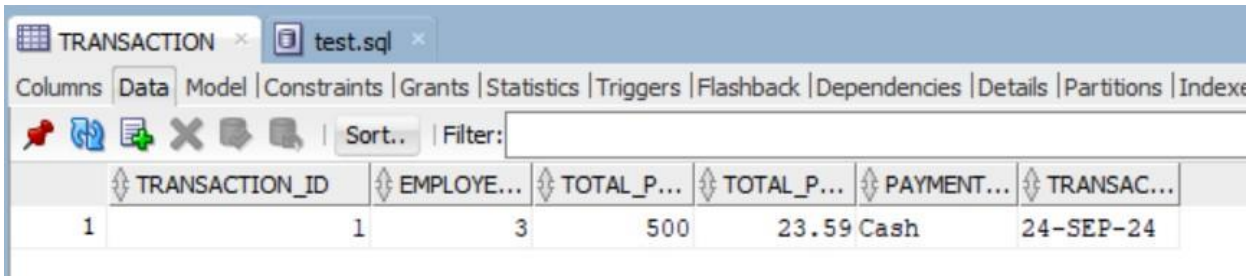
Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	PRODUCT_ID	CATEGORY	PRODUCT_NAME	PRICE	SHELF_QUANTITY
1	1	Fruit	Apple	0.99	10
2	2	Beverage	Orange Juice	2.99	20
3	3	Snack	Chips	1.99	15
4	4	Dairy	Milk	2.49	25

{Product_ID} → Category
{Product_ID} → Product_Name
{Product_ID} → Price
{Product_ID} → Shelf_Quantity

Transaction Table:


TRANSACTION | test.sql

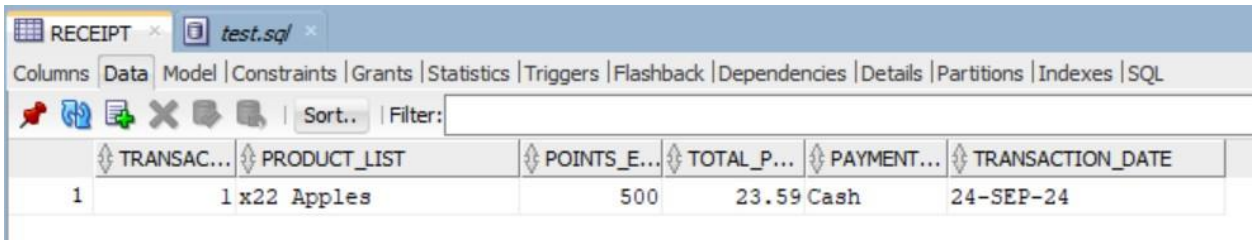
Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexe

Sort.. | Filter:

	TRANSACTION_ID	EMPLOYE...	TOTAL_P...	TOTAL_P...	PAYMENT...	TRANSAC...
1	1	3	500	23.59	Cash	24-SEP-24

{Transaction_ID, Employee_ID} → Points_Earned
{Transaction_ID, Employee_ID} → Total_Price
{Transaction_ID, Employee_ID} → Payment_Method
{Transaction_ID, Employee_ID} → Transaction_Date

Receipt Table:


RECEIPT | test.sql

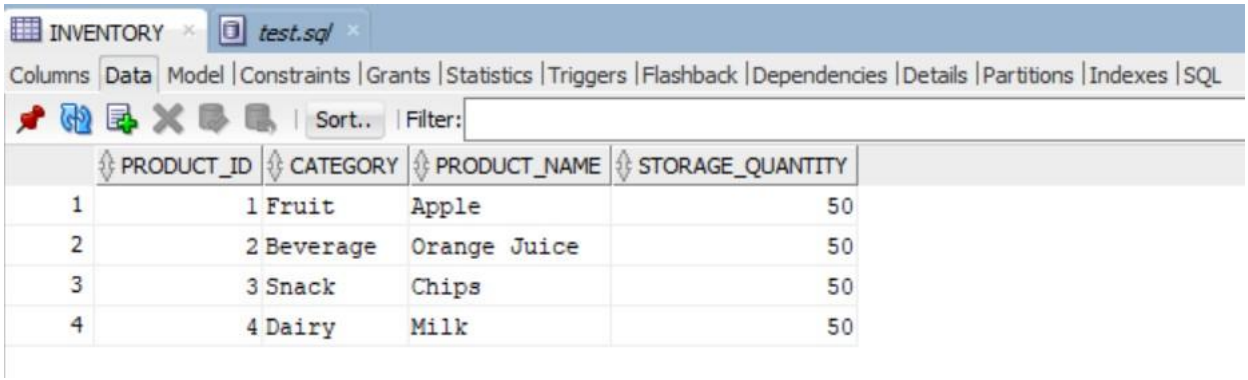
Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	TRANSAC...	PRODUCT_LIST	POINTS_E...	TOTAL_P...	PAYMENT...	TRANSACTION_DATE
1	1	x22 Apples	500	23.59	Cash	24-SEP-24

{Transaction_ID} → Product_List
{Transaction_ID} → Points_Earned
{Transaction_ID} → Total_Price
{Transaction_ID} → Payment_Method
{Transaction_ID} → Transaction_Date

Inventory Table:



	PRODUCT_ID	CATEGORY	PRODUCT_NAME	STORAGE_QUANTITY
1	1	Fruit	Apple	50
2	2	Beverage	Orange Juice	50
3	3	Snack	Chips	50
4	4	Dairy	Milk	50

{Product_ID} → Category
{Product_ID} → Product_Name
{Product_ID} → Storage_Quantity