

Phase 6

Toronto Metropolitan University

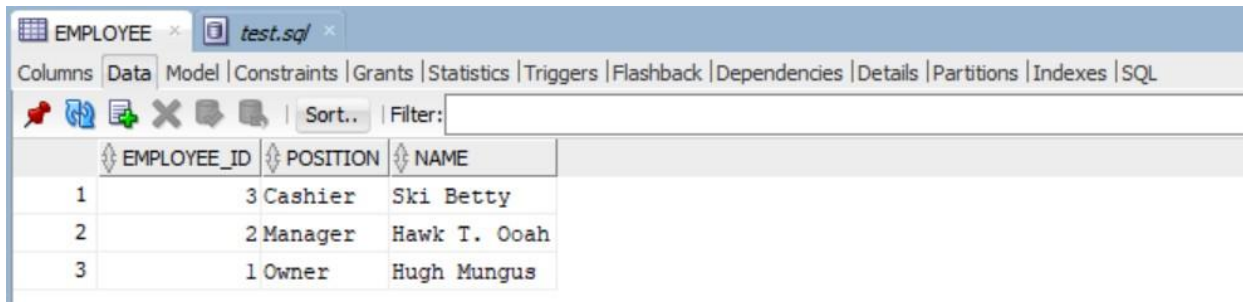
Simon Lin (501103322),
Dylan Ha (501056670),
Enes Polat (501061594)

CPS510 - Database Systems

Point of Sale System for Shopper Drug Marts

Functional Dependencies:

Employee Table:



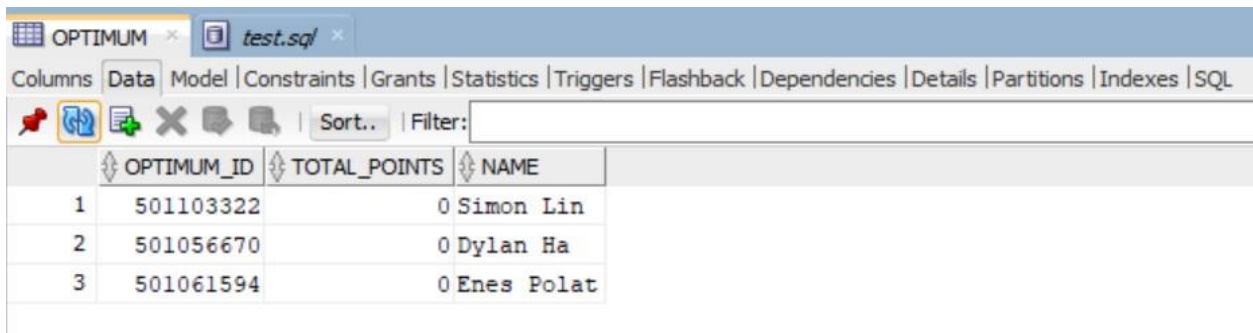
The screenshot shows the Oracle SQL Developer interface with the 'EMPLOYEE' table selected. The 'Data' tab is active, displaying the following data:

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

$\{Employee_ID\} \rightarrow Position$

$\{Employee_ID\} \rightarrow Name$

Optimum Table:



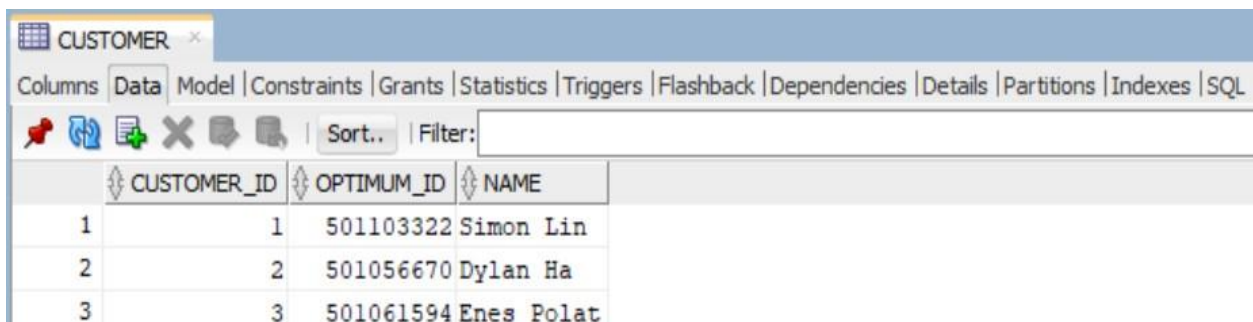
The screenshot shows the Oracle SQL Developer interface with the 'OPTIMUM' table selected. The 'Data' tab is active, displaying the following data:

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

$\{Employee_ID\} \rightarrow Total_Points$

$\{Employee_ID\} \rightarrow Name$

Customer Table:

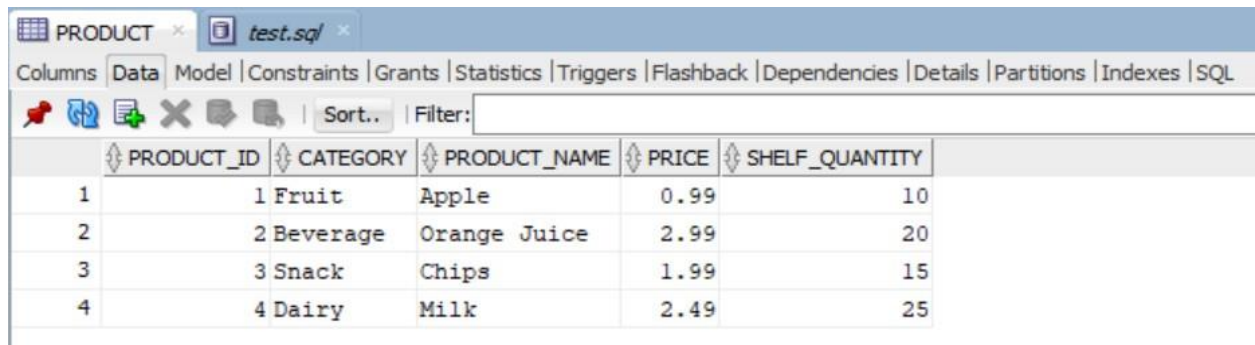


The screenshot shows the Oracle SQL Developer interface with the 'CUSTOMER' table selected. The 'Data' tab is active, displaying the following data:

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

$\{Customer_ID, Optimum_ID\} \rightarrow Name$

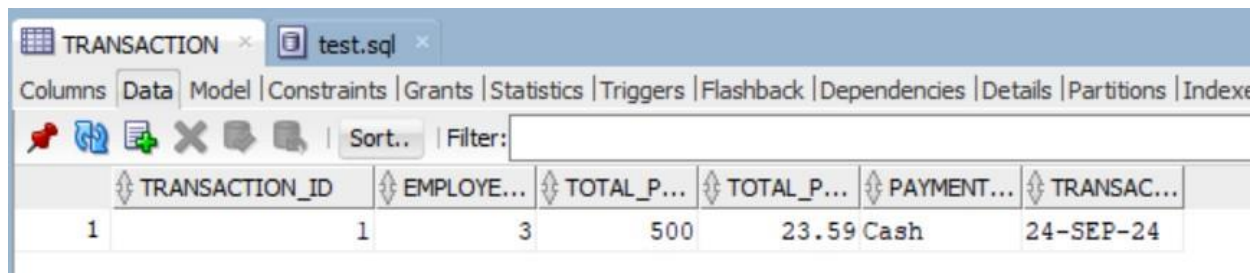
Product Table:



| | 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

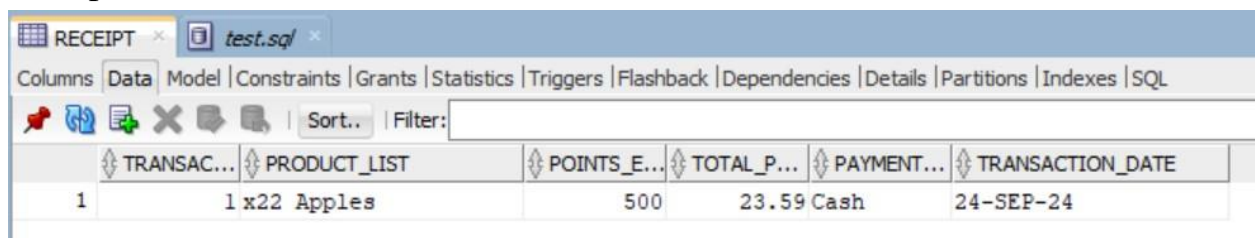
Transaction Table:



| | TRANSACTION_ID | EMPLOYEE... | 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

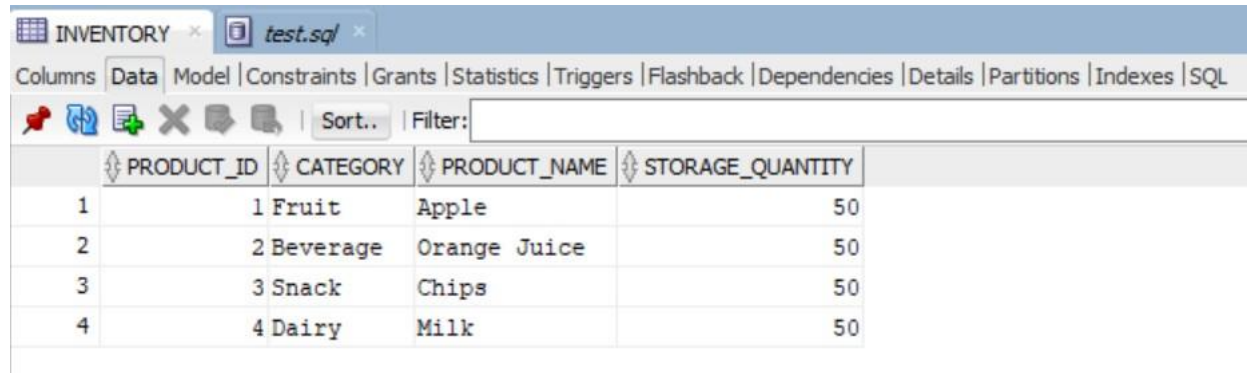
Receipt Table:



| | TRANSACTION... | PRODUCT_LIST | POINTS_E... | TOTAL_P... | PAYMENT... | TRANSACTION_DATE |
|---|----------------|--------------|-------------|------------|------------|------------------|
| 1 | 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:



The screenshot shows a database management interface with a tab labeled 'INVENTORY' and a file named 'test.sql'. Below the tabs is a menu bar with options: Columns, Data, Model, Constraints, Grants, Statistics, Triggers, Flashback, Dependencies, Details, Partitions, Indexes, and SQL. A toolbar contains icons for saving, refreshing, adding, deleting, and undo/redo, along with 'Sort..' and 'Filter:' buttons. The main area displays a table with the following data:

| | 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