



TAYLOR'S CLOTHING

Database Management System



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INFO 364
Group WTBS

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Introduction

Taylor's Clothing is a retail store located in Richmond, Virginia. Just like any retail company, it revolves around transactions, inventory, employees and, of course, its customers. This database will keep detailed information about everything involved in everyday business.

Without a database, Taylor's Clothing would struggle with losing track of inventory, inefficient transaction recording, missing customer information, and little to no employee sale records. With no proper inventory tracking employees cannot tell customers what is in stock or how many are left this can result in not only a frustrated customer but a loss in sales. It leaves employees helpless to properly perform their jobs. Businesses are also unable to properly record transaction histories so activities like returns or customers trying to remember what they bought in the past become much more difficult. Keeping track of past customer purchases also provides information about the customer so the business can tailor their notifications or advertisements for things that they would like. A database would also give businesses the tool to keep customer information such as an email address and phone number so they can communicate with their customers more frequently. Without a database, businesses are also unable to keep sale statistics on their employees. Know which employee is selling the most can give managers the opportunity to reward employees and train those who are not performing as well. Thus, making this a crucial tool for businesses, employee, and managers.

In conclusion, a database will be able to be used by employees, managers, and business owners and will provide them with the tools required in their job. It will increase sales by giving

information to an employee on a stock, provide adequate training, and customer awareness. Sales will also increase because businesses can communicate discounts and special events to their customers as well as tailor their advertisements based on past purchases. A database will also increase efficiency because managers will know when something is out of stock and to order more or if there is a hidden pile in the store. Thus, the utilization of a database in a retail business is crucial.

Project Peer guidelines

Team Mission Statement

We hope to learn, cooperate and accomplish a lot more than what the project asks for.

Team Core Values

Value	Behavioral Example and Counter Example (Please be specific)
Mutual respect	Active listening and cooperating and help when needed. Counter example would be showing disdain
Honesty	An example is being honest about what you can and cannot complete and explain if you are having difficulties. A counter example is lying or disappearing instead of asking for help.
Open Communication	Communicating expectations and frustrations instead of holding it inside and blowing up on the group or becoming more frustrated. In our TOPS agreement, we decided what the best form of communication was (GroupMe) and when the best times we were all available.

Team Communication Norms

How do we want to communicate in different situations?

Communication Need	Agreed Mode of Communication	Turn Around Time (if applicable)
General Logistics & Coordination	Email	1 Day
Quick Question	Text	4 hours
Urgent Matter	Text or call	1 hour
Personal Issue/Concern	Call	As soon as possible
Project Planning	Personal meeting	Once a week
Other	Text	1 Day

Accessibility and On-Call

What hours and days during the week do we want to agree to be generally accessible?

Tuesday after class

Normal Turn Around Time

What expectations should we have in terms of the frequency of checking e-mail and voicemail during the work week? On weekends and evenings?

Everyday

Team Meetings

How often should we meet as a team- both face to face and virtually?

Twice a week (1 in person 1 online)

Organizing and Getting the Work Done:*

WHAT PROCESS STEPS WILL THE TEAM FOLLOW:	PROCESS STEPS:
To Decide on initial roles and responsibilities to tackle the work? (e.g. project manager, task division and/or timeframe expectations)	Decide at the personal weekly meeting
To Develop and finalize team deliverables (e.g. initial work, integration of work, review and refinement of work, declaration of work completion of work)	Team meeting (either virtual or in person)
IF A TEAM MEMBER IS NOT CONTRIBUTING AS EXPECTED (late deliverables, late or not attending meetings, disengaged from group etc.)	Team hearing and possible coverage by others. Repeated delays – team decision to reorganize

Business Rules and User Requirements:

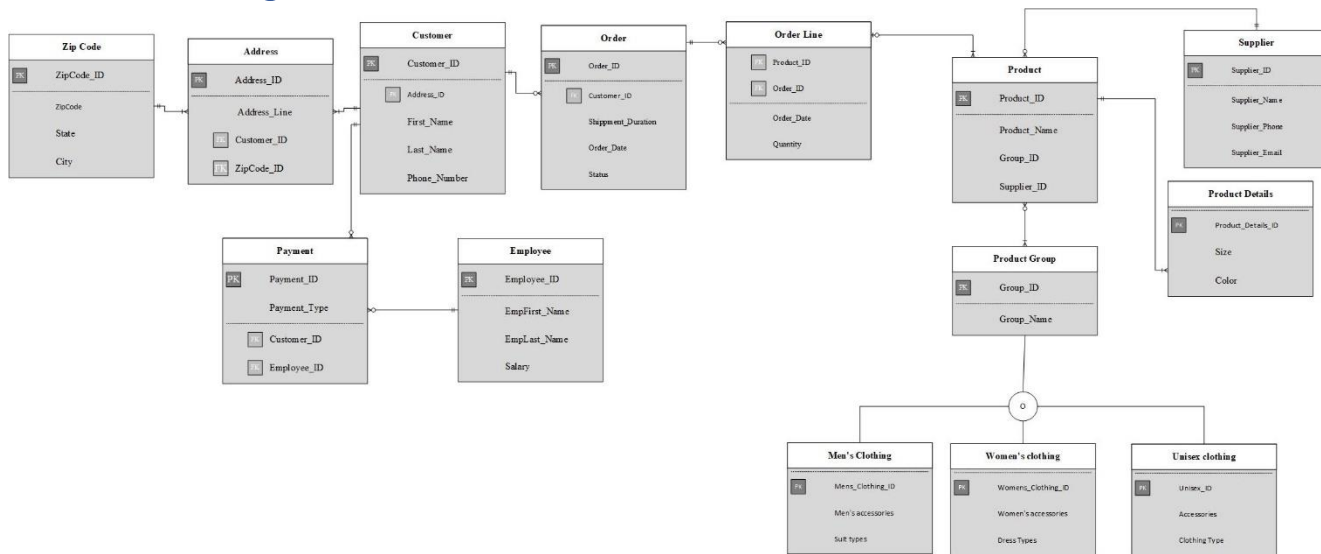
1. A Customer can have zero to many orders. An Order can have one and only one customer.
2. Every Customer is identified by its Customer ID. Customer first name, last name, and phone number are kept in the system for every customer.
3. Each Customer has zero to many Payment. A Payment belongs to one and only one Customer.
4. A Customer has one to many Address. Each Address belongs to one and only one Customer.
5. An Address is identified by Address ID and its Address line is kept in the system. Also, Customer ID and Zip Code ID are foreign key identifier.
6. An Address has one and only one Zip Code. Each Zip Code belongs to one to many Address.
7. Zip Code is identified by its Zip Code ID and its state and city are kept in the system.
8. A Payment is identified by its Payment ID and Payment Type. Customer ID and Employee ID are kept in the system for each Payment.
9. Payment of one and only one is processed by Employee. An employee can process zero to many Payment.
10. An Employee is identified by its Employee ID. Employee first name, last name, and salary are kept in the system for each Employee.
11. Each Order is identified by its Order ID. Shipment duration, order date, and status are kept in the system.
12. Each Order has zero to many Order Line. Every Order Line is associated with one and only one Order.
13. Order Line is identified by its Product ID and Order ID. Order Line date of order and quantities are kept in the system for every Order Line.
14. Every Order Line has one and only one Ordered Product. Each Ordered Product can have zero to many Order Line.
15. Ordered Product is identified by its Ordered Product ID. Ordered Product quantity, product price, and foreign key Product ID are kept in the system for each Ordered Product. Ordered Product has a foreign key identifier Product ID, which has relation with Product.
16. Each Ordered Product is a part of one and only one Product. A product can be part of zero to many Ordered Product.
17. A product is identified by its Product ID. Product name, group id, and supplier id are kept in the system for each Product.
18. A Product has one and only one supplier. A Supplier provides zero to many Products.
19. A Supplier is identified by its Supplier ID. Supplier name, phone number and email are kept in the system for each Supplier.

20. A Product has one or many Product Details. Every Product Details (size and color) has details of one only one Product.
21. Every Product is part of one and only Product Group. A Product Group has zero to many Product.
22. Product Group is identified by its Group ID. Group ID name is kept in the system for each Product Group.
23. A Product Group has two subtypes: Men's clothing and Women's Clothing.
24. Men's clothing keeps men's accessories and suits types in the system. For Women's clothing, women's accessories and dress types are kept in the system.

User Requirements:

1. A user can create a customer account.
2. A user can edit their personal profile with a new address or payment.
3. A user can create a new order.
4. A user can view order history.
5. A user can check order status.

ER Diagram



Identification of Entities:

- Employee
- Customer
- Address
- Zip Code
- Order
- Order Line
- Order Product
- Product
- Product Group
- Men's Clothing
- Women's Clothing
- Product Description
- Supplier

Description of Entities:

→ **Employee**-Any person who is employed as a part of the company staff. Attributes: EmployeeID, EmpFirst_Name, EmpLast_Name, Salary.

→ **Customer** -A person who buys products with cash or credit card. Attributes: CustomerID, First_Name, Last_Name, Phone_Number

→ **Address** -Address to with a particular order must be delivered. Attributes: AddressID, Address_line

→ **Zip Code** -Zip details of customers address is included. Attributes: ZipCode, City, State

→ **Payment**- This table holds payment and payment type. Attributes: Payment_ID, Payment_Type,

→ **Order** – This table hold the status of the order whether the order is delivered or not and the shipment option given by the customer. Attributes: Order_ID,Shippment_Duration, Order_Date, Status.

→ **Order Line** - OrderLine contains the details like date and quantity of items purchased. Attributes: Date of Order, Quantity

→ **Ordered Product**- This contains the details of quantity of product that customer ordered. Attributes: OrderProduct_ID, Quantity

→ **Product** -It is a form of good that is purchased by customer. Attributes: ProductID, Product_Name, Group_ID, Supplier_ID.

→ **Product Details** – Product details contains the description of particular product. Attributes: Size, Color

→ **Product Group** – Product group tells to which category the product belongs to. Attributes: Group_ID, Group_Name

Men's Clothing - Part of the Product group includes clothes that meant for men. Attributes: Men's accessories, Suit types

Women's Clothing - Part of the Product group includes clothes that meant for women. Attributes: Women's accessories, Dress Types

→ **Supplier**- Any person or entity that supplies products. Attributes: Supplier_ID, Supplier_Name, Supplier_Phone

Relationships:

Zip code is in the address

Customer will have an address

Customer places an order

Order contains order line

Order line lists ordered product

Product is supplied by a supplier

Product has product details

Product belongs to a group

Product group can be men's or women's clothing

Customer makes a payment

Employee processes a payment

SQL “Create Tables” and “Insert Rows” Script

```
CREATE TABLE "AZIPCODE"  
  ("ZIPCODE_ID" NUMBER,  
  "ZIPCODE" NUMBER,  
  "STATE" VARCHAR2(30),  
  "CITY" VARCHAR2(30),  
  CONSTRAINT "AZIPCODE_PK" PRIMARY KEY ("ZIPCODE_ID")  
  USING INDEX ENABLE)
```

```
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (1, '23230', 'VA', 'Richmond');
```

```
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (2, '23047', 'VA', 'Doswell');
```

```
Insert into AZIPCODE (ZIPCODE_ID, ZIPCODE, STATE, CITY) VALUES (3, '27858', 'NC', 'Greenville');
```

```
CREATE TABLE "AADDRESS"  
  ("ADDRESS_ID" NUMBER,  
  "ADDRESS_LINE" VARCHAR2(30),  
  "CUSTOMER_ID" NUMBER,  
  "ZIPCODE_ID" NUMBER,  
  CONSTRAINT "AADDRESS_PK" PRIMARY KEY ("ADDRESS_ID")  
  USING INDEX ENABLE  
  )
```

```
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (1, '3408 W Moore St', 1, 1);
```

```
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (2, '14211 Tower Rd', 2, 2);
```

```
Insert into AADDRESS (Address_ID, Address_Line, Customer_ID, ZipCode_ID) VALUES (3, '507 Evans St', 3, 3);
```

```
CREATE TABLE "APAYMENT"
```

```
("PAYMENT_ID" NUMBER,  
"PAYMENT_TYPE" VARCHAR2(30),  
"CUSTOMER_ID" NUMBER,  
"EMPLOYEE_ID" NUMBER,  
CONSTRAINT "APAYMENT_PK" PRIMARY KEY ("PAYMENT_ID")  
USING INDEX ENABLE  
)
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (1, 'Credit', 1,  
1);
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (2, 'Cash', 2,  
2);
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (3, 'Venmo',  
3, 3);
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (4, 'Apple  
Pay', 4, 4);
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (5, 'Debit', 5,  
5);
```

```
Insert into APAYMENT (Payment_ID, Payment_Type, Customer_ID, Employee_ID) VALUES (6, 'Check', 6,  
6);
```

```
CREATE TABLE "ACUSTOMER"
```

```
("CUSTOMER_ID" NUMBER,  
"FIRST_NAME" VARCHAR2(30),  
"LAST_NAME" VARCHAR2(30),  
"PHONE_NUMBER" NUMBER,  
"ADDRESS_ID" NUMBER,  
CONSTRAINT "ACUSTOMER_PK" PRIMARY KEY ("CUSTOMER_ID")  
USING INDEX ENABLE  
)
```

Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (1, 'John', 'Smith', 8043565122);

Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (2, 'Tracy', 'Adams', 8046987564);

Insert into ACUSTOMER (Customer_ID, First_Name, Last_Name, Phone_Number) VALUES (3, 'Mark', 'Brown', 2526544891);

CREATE TABLE "AEMPLOYEE"

("EMPLOYEE_ID" NUMBER,
"EMPFIRST_NAME" VARCHAR2(30),
"EMPLAST_NAME" VARCHAR2(30),
"SALARY" NUMBER,
CONSTRAINT "AEMPLOYEE_PK" PRIMARY KEY ("EMPLOYEE_ID")
USING INDEX ENABLE
)

Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (1, 'Richard', 'Tozer', 30125);

Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (2, 'Ashley', 'Nixon', 25890);

Insert into AEMPLOYEE (Employee_ID, EmpFirst_name, EmpLastName, Salary) VALUES (3, 'Sarah', 'Johnson', 32540);

CREATE TABLE "AORDER"

("ORDER_ID" NUMBER,
"CUSTOMER_ID" NUMBER,
"SHIPMENT_DURATION" NUMBER,
"ORDER_DATE" VARCHAR2(30),
"STATUS" VARCHAR2(30),
CONSTRAINT "AORDER_PK" PRIMARY KEY ("ORDER_ID")
USING INDEX ENABLE

)

Insert into AORDER (Order_ID, Customer_ID, Shippment_Duration, Order_Date, Status) VALUES (1, 1, 3, TO_DATE ('2019/02/15', 'yyyy/mm/dd'), Shipped);

Insert into AORDER (Order_ID, Customer_ID, Shippment_Duration, Order_Date, Status) VALUES (2, 2, 5, TO_DATE ('2019/03/07', 'yyyy/mm/dd'), Pending);

Insert into AORDER (Order_ID, Customer_ID, Shippment_Duration, Order_Date, Status) VALUES (3, 3, 7, TO_DATE ('2019/03/18', 'yyyy/mm/dd'), Pending);

CREATE TABLE "AORDER_LINE"

("PRODUCT_ID" NUMBER,

"ORDER_ID" NUMBER,

"ORDER_DATE" VARCHAR2(30),

"QUANTITY" NUMBER,

CONSTRAINT "AORDER_LINE_PK" PRIMARY KEY ("PRODUCT_ID")

USING INDEX ENABLE

)

INSERT INTO AORDER_LINE (PRODUCT_ID, ORDER_ID, ORDER_DATE, QUANTITY)
VALUES (1, 1, TO_DATE ('2019/02/15', 'yyyy/mm/dd'), 2);

INSERT INTO AORDER_LINE (PRODUCT_ID, ORDER_ID, ORDER_DATE, QUANTITY)
VALUES (2, 2, TO_DATE ('2019/03/07', 'yyyy/mm/dd'), 4);

INSERT INTO AORDER_LINE (PRODUCT_ID, ORDER_ID, ORDER_DATE, QUANTITY)
VALUES (3, 3, TO_DATE ('2019/03/07', 'yyyy/mm/dd'), 6);

CREATE TABLE "AMENSCLOTHING"

("MENSCLOTHING_ID" NUMBER,

"MENS_ACCESSORIES" VARCHAR2(30),

```
"SUIT_TYPES" VARCHAR2(30),  
    CONSTRAINT "MEN'SCLOTHING_PK" PRIMARY KEY ("MENSCLCLOTHING_ID")  
    USING INDEX ENABLE  
);
```

Insert into AMENSCLOTHING (men'sClothing_ID,Men's_Accessories,Suit_Types) VALUES (1,Watches,
Tuxedo);

Insert into AMENSCLOTHING (men'sClothing_ID,Men's_Accessories,Suit_Types) VALUES (2,Glasses,
Wedding);

Insert into AMENSCLOTHING (men'sClothing_ID,Men's_Accessories,Suit_Types) VALUES (3,Headbands,
Lounge);

```
CREATE TABLE "APRODUCT"  
( "PRODUCT_ID" NUMBER,  
  "PRODUCT_NAME" VARCHAR2(30),  
  "GROUP_ID" NUMBER,  
  "SUPPLIER_ID" NUMBER,  
  CONSTRAINT "1PRODUCT_PK" PRIMARY KEY ("PRODUCT_ID")  
  USING INDEX ENABLE  
);
```

Insert into APRODUCT (Product_ID,Product_Name,Supplier_ID) VALUES (1,T-shirt, 1);

Insert into APRODUCT (Product_ID,Product_Name,Supplier_ID) VALUES (2,Shoes, 2);

Insert into APRODUCT (Product_ID,Product_Name,Supplier_ID) VALUES (3,Glasses, 3);

```
CREATE TABLE "APRODUCTDETAIL"  
( "PRODUCTDETAIL_ID" NUMBER,  
  "1SIZE" VARCHAR2(30),
```



```
"COLOR" VARCHAR2(30),  
    CONSTRAINT "1PRODUCTDETAIL_PK" PRIMARY KEY ("PRODUCTDETAIL_ID")  
    USING INDEX ENABLE  
);
```

```
Insert into APRODUCTDETAIL (ProductDetail_ID,1Size,Color) VALUES (1,M, Blue);  
Insert into APRODUCTDETAIL (ProductDetail_ID,1Size,Color) VALUES (2,L, White);  
Insert into APRODUCTDETAIL (ProductDetail_ID,1Size,Color) VALUES (3,XL, Black);
```

```
CREATE TABLE "APRODUCTGROUP"  
( "GROUP_ID" NUMBER,  
  "GROUP_NAME" VARCHAR2(30),  
  CONSTRAINT "1PRODUCTGROUP_PK" PRIMARY KEY ("GROUP_ID")  
  USING INDEX ENABLE  
);
```

```
Insert into APRODUCTGROUP (Group_ID,Group_Name) VALUES (1,Men's);  
Insert into APRODUCTGROUP (Group_ID,Group_Name) VALUES (2,Women's);  
Insert into APRODUCTGROUP (Group_ID,Group_Name) VALUES (3,Unisex);
```

```
CREATE TABLE "AUNISEX"  
( "UNISEX_ID" NUMBER,  
  "ACCESSORIES" VARCHAR2(30),  
  "CLOTHING_TYPE" VARCHAR2(30),  
  CONSTRAINT "1UNISEX_PK" PRIMARY KEY ("UNISEX_ID")  
  USING INDEX ENABLE  
);
```

```
Insert into AUNISEX (Unisex_ID,Accessories,Clothing_Type) VALUES (1,Hats, Pants);
Insert into AUNISEX (Unisex_ID,Accessories,Clothing_Type) VALUES (2,Belts, Shirts);
Insert into AUNISEX (Unisex_ID,Accessories,Clothing_Type) VALUES (3,watches, Shoes);
```

```
CREATE TABLE "AWOMENSCLOTHING"
(  "WOMENSCLOTHING_ID" NUMBER,
  "WOMENS_ACCESSORIES" VARCHAR2(30),
  "DRESS_TYPES" VARCHAR2(30),
  CONSTRAINT "1WOMEN'SCLOTHING_PK" PRIMARY KEY ("WOMENSCLOTHING_ID")
  USING INDEX ENABLE
);
```

```
Insert into AWOMENSCLOTHING (Women'sClothing_ID,Women's_Accessories,Dress_Types) VALUES
(1,Glasses, Slip);
```

```
Insert into AWOMENSCLOTHING (Women'sClothing_ID,Women's_Accessories,Dress_Types) VALUES
(2,Belts, Party);
```

```
Insert into AWOMENSCLOTHING (Women'sClothing_ID,Women's_Accessories,Dress_Types) VALUES
(3,Bows, Gown);
```

```
CREATE TABLE "ASUPPLIER"
(  "SUPPLIER_ID" NUMBER,
  "SUPPLIER_NAME" VARCHAR2(30),
  "SUPPLIER_PHONE" NUMBER,
  "SUPPLIER_EMAIL" VARCHAR2(30),
  CONSTRAINT "1SUPPLIER_PK" PRIMARY KEY ("SUPPLIER_ID")
  USING INDEX ENABLE
);
```

Insert into ASUPPLIER (Supplier_ID,Supplier_Name,Supplier_Phone,Supplier_email) VALUES (1,Walmart,
804352221, wal@walmart.com);

Insert into ASUPPLIER (Supplier_ID,Supplier_Name,Supplier_Phone,Supplier_email) VALUES (2,Target,
7032551666, tar@target.com);

Insert into ASUPPLIER (Supplier_ID,Supplier_Name,Supplier_Phone,Supplier_email) VALUES (3,BestBuy,
8045552544, Best@bestbuy.com);

SELECT and DESC commands

Autocommit Rows 10 Save Run

```
SELECT * from AZIPCODE
```

Results Explain Describe Saved SQL History

	ZIPCODE_ID	ZIPCODE	STATE	CITY
1	23230	VA	Richmond	
2	23047	VA	Doswell	
3	27858	NC	Greenville	
5	99501	AR	Anchorage	
6	94203	CA	Sacramento	
7	85001	AZ	Phoenix	
8	80201	CO	Denver	
9	32501	FL	Pensacola	
10	60601	FL	Pensacola	
4	87122	NM	Albuquerque	

10 rows returned in 0.01 seconds [Download](#)


DESC AZIPCODE

Results Explain Describe Saved SQL History

Object Type TABLE Object AZIPCODE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<u>AZIPCODE</u>	<u>ZIPCODE_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>ZIPCODE</u>	NUMBER	22	-	-	-	✓	-	-
	<u>STATE</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>CITY</u>	VARCHAR2	30	-	-	-	✓	-	-

1 - 4

☒ Autocommit Rows  Save Run

SELECT * from ADDRESS

Results Explain Describe Saved SQL History

ZIPCODE_ID	ZIPCODE	STATE	CITY
1	23230	VA	Richmond
2	23047	VA	Doswell
3	27858	NC	Greenville
5	99501	AR	Anchorage
6	94203	CA	Sacramento
7	85001	AZ	Pheonix
8	80201	CO	Denver
9	32501	FL	Pensacola
10	60601	FL	Pensacola
4	87122	NM	Albuquerque

10 rows returned in 0.01 seconds [Download](#)


DESC

ADDRESS

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **AADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AADDRESS	ADDRESS_ID	NUMBER	22	-	-	1	-	-	-
	ADDRESS_LINE	VARCHAR2	30	-	-	-	✓	-	-
	CUSTOMER_ID	NUMBER	22	-	-	-	✓	-	-
	ZIPCODE_ID	NUMBER	22	-	-	-	✓	-	-
									1 - 4

☒ Autocommit Rows 

SELECT * from **A**PAYMENT

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

PAYMENT_ID	PAYMENT_TYPE	CUSTOMER_ID	EMPLOYEE_ID
4	Check	1	3
5	Debit	2	1
6	ApplePay	2	2
1	Credit	1	1
2	Cash	2	2
3	Venmo	3	3

6 rows returned in 0.00 seconds [Download](#)

DESC APAYMENT

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **APAYMENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<u>APAYMENT</u>	<u>PAYMENT_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>PAYMENT_TYPE</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>EMPLOYEE_ID</u>	NUMBER	22	-	-	-	✓	-	-
									1 - 4

SELECT * FROM ACUSTOMER

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

CUSTOMER_ID	FIRST_NAME	LAST_NAME	PHONE_NUMBER	ADDRESS_ID
1	John	Smith	8043565122	1
2	Tracy	Adams	8046987564	2
3	Mark	Brown	2526544891	3

3 rows returned in 0.00 seconds

[Download](#)

☒ Autocommit
 Rows 10
Save
Run

DESC ACUSTOMER

Results
Explain
Describe
Saved SQL
History

Object Type **TABLE** Object ACUSTOMER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Co
<u>ACUSTOMER</u>	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>FIRST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>LAST_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>PHONE_NUMBER</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ADDRESS_ID</u>	NUMBER	22	-	-	-	✓	-	-

1 - 5

☒ Autocommit Rows Save Run

```
SELECT * FROM AEMPLOYEE
```

Results Explain Describe Saved SQL History

EMPLOYEE_ID	EMPFIRST_NAME	EMPLAST_NAME	SALARY
1	Richard	Tozer	30125
2	Ashley	Nixon	25890
3	Taylor	Mathes	32540

3 rows returned in 0.01 seconds [Download](#)

☒ Autocommit Rows Save Run

```
DESC AEMPLOYEE
```

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **AEMPLOYEE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
AEMPLOYEE	EMPLOYEE_ID	NUMBER	22	-	-	1	-	-	-
	EMPFIRST_NAME	VARCHAR2	30	-	-	-	✓	-	-
	EMPLAST_NAME	VARCHAR2	30	-	-	-	✓	-	-
	SALARY	NUMBER	22	-	-	-	✓	-	-

1 - 4

```
SELECT * FROM AORDER
```

Results Explain Describe Saved SQL History

ORDER_ID	CUSTOMER_ID	SHIPPMENT_DURATION	ORDER_DATE	STATUS
1	1	3	02/15/2019	Shipped
2	2	5	03/07/2019	Shipped
3	3	7	03/18/2019	Pending

3 rows returned in 0.00 seconds [Download](#)

☒ Autocommit
 Rows 10
Save
Run

DESC AORDER

Results
Explain
Describe
Saved SQL
History

Object Type **TABLE** Object **AORDER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	C
<u>AORDER</u>	<u>ORDER_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>CUSTOMER_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>SHIPPMENT_DURATION</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ORDER_DATE</u>	DATE	7	-	-	-	✓	-	-
	<u>STATUS</u>	VARCHAR2	30	-	-	-	✓	-	-
									1 - 5


```
SELECT * FROM AORDER_LINE
```

Results Explain Describe Saved SQL History

PRODUCT_ID	ORDER_ID	ORDER_DATE	QUANTITY
2	2	03/07/2019	4
1	1	02/15/2019	2
3	3	03/07/2019	6

3 rows returned in 0.00 seconds

[Download](#)

☒ Autocommit Rows  Save Run

DESC AORDER_LINE

[Results](#) [Explain](#) **[Describe](#)** [Saved SQL](#) [History](#)

Object Type **TABLE** Object **AORDER_LINE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
<u>AORDER_LINE</u>	<u>PRODUCT_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>ORDER_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ORDER_DATE</u>	DATE	7	-	-	-	✓	-	-
	<u>QUANTITY</u>	NUMBER	22	-	-	-	✓	-	-
									1 - 4

select * from MensClothing;

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

MENSCLOTHING_ID	MENS_ACCESSORIES	SUIT_TYPES
1	Watches	Tuxedo
2	Glasses	Wedding
3	Headbands	Lounge

3 rows returned in 0.00 seconds [Download](#)

Desc| AmensClothing;

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **1UNISEX**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
1UNISEX	UNISEX_ID	NUMBER	22	-	-	1	-	-	-
	ACCESSORIES	VARCHAR2	30	-	-	-	✓	-	-
	CLOTHING_TYPE	VARCHAR2	30	-	-	-	✓	-	-
									1 - 3

Select * from AProduct;

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

PRODUCT_ID	PRODUCT_NAME	GROUP_ID	SUPPLIER_ID
1	T-shirt	1	1
2	Shoes	2	2
3	Glasses	3	3

3 rows returned in 0.00 seconds

[Download](#)

Desc| AProduct;

Results Explain Describe Saved SQL History

Object Type TABLEObject APRODUCT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APRODUCT	PRODUCT_ID	NUMBER	22	-	-	1	-	-	-
	PRODUCT_NAME	VARCHAR2	30	-	-	-	✓	-	-
	GROUP_ID	NUMBER	22	-	-	-	✓	-	-
	SUPPLIER_ID	NUMBER	22	-	-	-	✓	-	-
									1-4

select * from Aproductdetail;

Results Explain Describe Saved SQL Hi:

PRODUCTDETAIL_ID	1SIZE	COLOR
1	M	Blue
2	L	White
3	XL	Black

3 rows returned in 0.00 seconds [Download](#)

```
Desc| Aproductdetail;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object APRODUCTDETAIL

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APRODUCTDETAIL	PRODUCTDETAIL_ID	NUMBER	22	-	-	1	-	-	-
	1SIZE	VARCHAR2	30	-	-	-	✓	-	-
	COLOR	VARCHAR2	30	-	-	-	✓	-	-
									1 - 3

```
select * from AproductGroup;
```

Results Explain Describe Saved SQL

GROUP_ID	GROUP_NAME
1	Men's
2	Women's
3	Unisex

3 rows returned in 0.01 seconds


```
Desc| Aproductgroup;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type TABLEObject APRODUCTGROUP

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APRODUCTGROUP	<u>GROUP_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>GROUP_NAME</u>	VARCHAR2	30	-	-	-	✓	-	-
									1-2

```
select * from AUnisex;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

UNISEX_ID	ACCESSORIES	CLOTHING_TYPE
1	Hats	Pants
2	Belts	Shirts
3	watches	Shoes

3 rows returned in 0.00 seconds

[Download](#)

```
Desc AUNISEX;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object AUNISEX

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AUNISEX	UNISEX_ID	NUMBER	22	-	-	1	-	-	-
	ACCESSORIES	VARCHAR2	30	-	-	-	✓	-	-
	CLOTHING_TYPE	VARCHAR2	30	-	-	-	✓	-	-
									1-3

```
select * from ASupplier;
```

Results Explain Describe Saved SQL History

SUPPLIER_ID	SUPPLIER_NAME	SUPPLIER_PHONE	SUPPLIER_EMAIL
1	Walmart	804352221	wal@walmart.com
2	Target	7032551666	tar@target.com
3	BestBuy	8045552544	Best@bestbuy.com

3 rows returned in 0.01 seconds

[Download](#)

```
Desc ASupplier;
```

Results Explain **Describe** Saved SQL History

Object Type TABLEObject ASUPPLIER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ASUPPLIER	SUPPLIER_ID	NUMBER	22	-	-	1	-	-	-
	SUPPLIER_NAME	VARCHAR2	30	-	-	-	✓	-	-
	SUPPLIER_PHONE	NUMBER	22	-	-	-	✓	-	-
	SUPPLIER_EMAIL	VARCHAR2	30	-	-	-	✓	-	-
									1 - 4

```
select * from Awomensclothing;
```

Results Explain Describe Saved SQL History

WOMENSCLOTHING_ID	WOMENS_ACCESSORIES	DRESS_TYPES
1	Glasses	Slip
2	Belts	Party
3	Bows	Gown

3 rows returned in 0.01 seconds

[Download](#)

Desc| Awomensclothing;

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type [TABLE](#) Object [AWOMENSCLOTHING](#)

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AWOMENSCLOTHING	WOMENSCLOTHING_ID	NUMBER	22	-	-	1	-	-	-
	WOMENS_ACCESSORIES	VARCHAR2	30	-	-	-	✓	-	-
	DRESS_TYPES	VARCHAR2	30	-	-	-	✓	-	-
									1 - 3

Queries

Autocommit Rows 10 Save Run

```
SELECT FIRST_NAME, LAST_NAME  
FROM ACUSTOMER;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
Beth	Morgan
Elena	Sheldon
Seth	Ferall
Sarah	Davis
John	Howard
Robert	Peters
Elizabeth	McGuier
John	Smith
Tracy	Adams
Mark	Brown

10 rows returned in 0.01 seconds [Download](#)

Autocommit Rows 10 Save Run

```
SELECT ADDRESS_LINE  
FROM ADDRESS;
```

Results Explain Describe Saved SQL History

ADDRESS_LINE
7389 Broad Street
7390 Main Street
84830 Harvard Lane
7134 Mills
9034 Eubank
3408 W Moore St
14211 Tower Rd
507 Evans St
126 Mount Road
8276 R C Gorman

10 rows returned in 0.01 seconds [Download](#)

```
SELECT EMPFIRST_NAME, EMPLAST_NAME  
FROM AEMPLOYEE;
```

Results Explain Describe Saved SQL History

EMPFIRST_NAME	EMPLAST_NAME
Richard	Tozer
Ashley	Nixon
Taylor	Mathes

3 rows returned in 0.00 seconds [Download](#)

```
SELECT EMPFIRST_NAME, EMPLAST_NAME, SALARY  
FROM AEMPLOYEE;
```

Results Explain Describe Saved SQL History

EMPFIRST_NAME	EMPLAST_NAME	SALARY
Richard	Tozer	30125
Ashley	Nixon	25890
Taylor	Mathes	32540

3 rows returned in 0.01 seconds [Download](#)

```
SELECT PRODUCT_NAME  
FROM APRODUCT];
```

Results Explain Describe Saved SQL Histo

PRODUCT_NAME
T-shirt
Shoes
Glasses

3 rows returned in 0.00 seconds

[Download](#)

```

SELECT FIRST_NAME, LAST_NAME
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = CC.ZIPCODE_ID
AND CC.ZIPCODE = 23047;

```

Results Explain Describe Saved SQL Hist

FIRST_NAME	LAST_NAME
Tracy	Adams

1 rows returned in 0.01 seconds

[Download](#)

```

SELECT first_name, last_name
FROM ACUSTOMER AA, AADDRESS BB
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = 3;

```

Results Explain Describe Saved SQL Hist

FIRST_NAME	LAST_NAME
Mark	Brown

1 rows returned in 0.00 seconds

[Download](#)


```
SELECT first_name, last_name
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = CC.ZIPCODE_ID
AND CC.ZIPCODE = 23230;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
John	Smith

1 rows returned in 0.00 seconds

[Download](#)

```
SELECT STATE, CITY, ZIPCODE
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = CC.ZIPCODE_ID
AND CC.ZIPCODE = 23047;
```

Results Explain Describe Saved SQL History

STATE	CITY	ZIPCODE
VA	Doswell	23047

1 rows returned in 0.00 seconds

[Download](#)

```

SELECT FIRST_NAME, LAST_NAME, STATE, CITY, ZIPCODE
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID AND BB.ZIPCODE_ID = CC.ZIPCODE

```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	STATE	CITY	ZIPCODE
Beth	Morgan	CO	Denver	80201
Elena	Sheldon	FL	Pensacola	32501
Seth	Ferall	FL	Pensacola	60601
Robert	Peters	CA	Sacramento	94203
Elizabeth	McGuier	AZ	Pheonix	85001
John	Smith	VA	Richmond	23230
Tracy	Adams	VA	Doswell	23047
Mark	Brown	NC	Greenville	27858
Sarah	Davis	NM	Albuquerque	87122
John	Howard	AR	Anchorage	99501

10 rows returned in 0.00 seconds Download

```

SELECT FIRST_NAME, LAST_NAME, ADDRESS_LINE, PHONE_NUMBER
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID AND BB.ZIPCODE_ID = CC.ZIPCODE_ID;

```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	ADDRESS_LINE	PHONE_NUMBER
Beth	Morgan	7389 Broad Street	2738933847
Elena	Sheldon	7390 Main Street	7394821843
Seth	Ferall	84830 Harvard Lane	8399562376
Robert	Peters	7134 Mills	4323467432
Elizabeth	McGuier	9034 Eubank	8372345937
John	Smith	3408 W Moore St	8043565122
Tracy	Adams	14211 Tower Rd	8046987564
Mark	Brown	507 Evans St	2526544891
Sarah	Davis	126 Mount Road	6453246543
John	Howard	8276 R C Gorman	8934029834

```
SELECT FIRST_NAME, LAST_NAME, ORDER_DATE  
FROM ACUSTOMER AA, AORDER BB  
WHERE AA.CUSTOMER_ID = BB.ORDER_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	ORDER_DATE
John	Smith	02/15/2019
Tracy	Adams	03/07/2019
Mark	Brown	03/18/2019

3 rows returned in 0.00 seconds

[Download](#)

```
SELECT FIRST_NAME, LAST_NAME, ORDER_DATE, STATUS|
FROM ACUSTOMER AA, AORDER BB
WHERE AA.CUSTOMER_ID = BB.ORDER_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	ORDER_DATE	STATUS
John	Smith	02/15/2019	Shipped
Tracy	Adams	03/07/2019	Shipped
Mark	Brown	03/18/2019	Pending

3 rows returned in 0.01 seconds [Download](#)

```
SELECT FIRST_NAME, LAST_NAME, PAYMENT_TYPE|
FROM ACUSTOMER AA, APAYMENT BB
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	PAYMENT_TYPE
John	Smith	Check
Tracy	Adams	Debit
Tracy	Adams	ApplePay
John	Smith	Credit
Tracy	Adams	Cash
Mark	Brown	Venmo

6 rows returned in 0.01 seconds

[Download](#)

```
SELECT FIRST_NAME, LAST_NAME, PRODUCT_NAME
FROM ACUSTOMER AA, AORDER BB, AORDER_LINE CC, APRODUCT DD
WHERE AA.CUSTOMER_ID = BB.ORDER_ID AND
BB.ORDER_ID = CC.ORDER_ID AND CC.PRODUCT_ID = DD.PRODUCT_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	PRODUCT_NAME
John	Smith	T-shirt
Tracy	Adams	Shoes
Mark	Brown	Glasses

3 rows returned in 0.01 seconds [Download](#)

```
SELECT FIRST_NAME, LAST_NAME, PRODUCT_NAME, QUANTITY
FROM ACUSTOMER AA, AORDER BB, AORDER_LINE CC, APRODUCT DD
WHERE AA.CUSTOMER_ID = BB.ORDER_ID AND
BB.ORDER_ID = CC.ORDER_ID AND CC.PRODUCT_ID = DD.PRODUCT_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	PRODUCT_NAME	QUANTITY
John	Smith	T-shirt	2
Tracy	Adams	Shoes	4
Mark	Brown	Glasses	6

3 rows returned in 0.01 seconds [Download](#)

```
SELECT PRODUCT_NAME, SUPPLIER_NAME, SUPPLIER_PHONE  
FROM APRODUCT AA, ASUPPLIER BB  
WHERE AA.SUPPLIER_ID = BB.SUPPLIER_ID;
```

Results Explain Describe Saved SQL History

PRODUCT_NAME	SUPPLIER_NAME	SUPPLIER_PHONE
T-shirt	Walmart	804352221
Shoes	Target	7032551666
Glasses	BestBuy	8045552544

3 rows returned in 0.00 seconds [Download](#)


```
SELECT PRODUCT_NAME, GROUP_NAME
FROM APRODUCTGROUP AA, APRODUCT BB
WHERE AA.GROUP_ID = BB.GROUP_ID;
```

Results Explain Describe Saved SQL History

PRODUCT_NAME	GROUP_NAME
T-shirt	Men's
Shoes	Women's
Glasses	Unisex

3 rows returned in 0.00 seconds

[Download](#)

```
SELECT FIRST_NAME, LAST_NAME, ORDER_DATE, STATUS, SHIPMENT_DURATION
FROM ACUSTOMER AA, AORDER BB
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	ORDER_DATE	STATUS	SHIPMENT_DURATION
John	Smith	02/15/2019	Shipped	3
Tracy	Adams	03/07/2019	Shipped	5
Mark	Brown	03/18/2019	Pending	7

3 rows returned in 0.00 seconds

[Download](#)

```

SELECT EMPFIRST_NAME, EMPLAST_NAME, FIRST_NAME, LAST_NAME, PAYMENT_TYPE
FROM AEMPLOYEE AA, APAYMENT BB, ACUSTOMER CC
WHERE AA.EMPLOYEE_ID = BB.EMPLOYEE_ID AND CC.CUSTOMER_ID = BB.CUSTOMER_ID;

```

Results Explain Describe Saved SQL History

EMPFIRST_NAME	EMPLAST_NAME	FIRST_NAME	LAST_NAME	PAYMENT_TYPE
Richard	Tozer	John	Smith	Credit
Ashley	Nixon	Tracy	Adams	Cash
Taylor	Mathes	Mark	Brown	Venmo

3 rows returned in 0.00 seconds

[Download](#)

```

SELECT FIRST_NAME, LAST_NAME
FROM ACUSTOMER AA, ADDRESS BB
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = 3;

```

Results Explain Describe Saved SQL

FIRST_NAME	LAST_NAME
Mark	Brown

1 rows returned in 0.01 seconds

[Download](#)

```
SELECT FIRST_NAME, LAST_NAME
FROM ACUSTOMER AA, AADDRESS BB, AZIPCODE CC
WHERE AA.CUSTOMER_ID = BB.CUSTOMER_ID
AND BB.ZIPCODE_ID = CC.ZIPCODE_ID
AND CC.ZIPCODE = 23230
;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME
------------	-----------

John	Smith
------	-------

1 rows returned in 0.01 seconds

[Download](#)

Peer Evaluation

I would like to thank my team members for the wonderful job on this project. Everyone in the team has contributed with ideas and information helping the group complete the project. The tasks on the final project were divided among the group members and responsibilities were shared. I rank our group's efforts at working together as excellent.

-Waheed Monier

I had a great time working with my team members and each of us were very effective and helpful. Everyone was very social and communicative through text and in class about the project. We had divided our project fairly and each one of us was able to finish in due time and help was provided when needed. Also, when I was absent due to cold, my team mates were very helpful to explain me what went in class and what section I was assigned.

-Sujit Gurung

I believe we did a great job contributing our time and energy to get the job done. I strongly agree that while all our schedules are busy, we were able to communicate, prepare and rely on each other to produce good reports. We have cooperated, accomplished and learned more than what the project asks for. A diverse group allowed us to gain insight on everyone's experiences to produce a well-rounded report and has taught us many things about EER diagrams, Relational tables, SQL, data and Database Systems.

- Bryce Bowles

Our team consisted of strong communicators dedicated to the overall success of the project. We actively communicated and completed what needed to be done. Everyone participated and there were no issues. I believe that this group worked together extremely well and I enjoyed the entire process without any confusion or missteps. Together we figured out how to make the best database possible and fully understand every concept completely.

-Taylor Moyer