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Lab 6

Database Systems

November 4, 2020

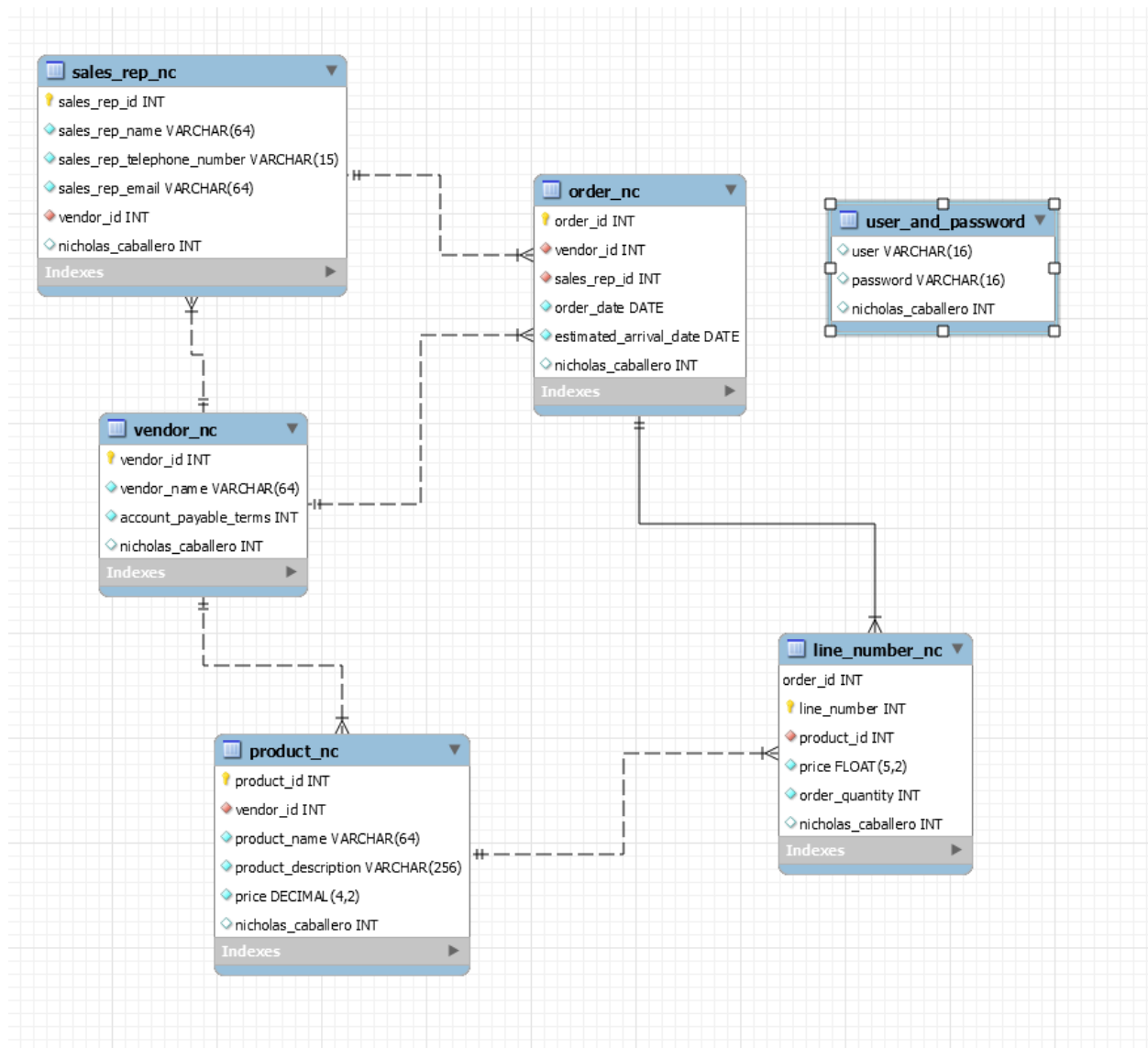
In the programming language of your choice (python might be easiest), construct a cruddy program (GUI for extra credit) to interact with the AirSupply database created for Lab 3 and Lab 4. Your application should include proper authentication and will accommodate all CRUD functionality, including read, write, update and delete commands. Your application should also consider proper security constraints requiring only registered users to connect. The application should also have a dedicated database user id and password.

Grading for Lab 6 is loosely based on the [Technology Acceptance Model](#). Your upload will include the following in your zip file:

- All program files
- Your database in .sql format (schema and data included).
- MS Word Document with screenshots of the application running.

### **Part I**

Authentication (5pts) – System login credentials including appropriate user id and password to log into the application and dedicated database id and password to allow the system to connect to database. For Part I, you will need a new entity to track application users and passwords. Include data for two users; one with your Dolphin ID as the user name and another with professor as the user name (set the password equal to letmein420 for both). In the space below, provide a screenshot of the reverse engineered database (ERD). Also create a query to return the data captured in your new user table.



60 • `select * from user_and_password;`

Result Grid

	user	password	nicholas_caballero
▶	nicholas.caballero363	letmein420	NULL
	professor	letmein420	NULL

```
PS C:\Users\ncaba> & C:/Users/ncaba/AppData/Local/Programs/Python/Python37/python.exe "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py"
Created by Nicholas Caballero
```

```
Enter your username:
nicholas.caballero363
Enter your password:
letmein428
Successful Login
```

Created by Nicholas Caballero

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: Exit
```

Exit successful

Termination successful

Created by Nicholas Caballero

```
PS C:\Users\ncaba> █
```

```
PS C:\Users\ncaba> & C:/Users/ncaba/AppData/Local/Programs/Python/Python37/python.exe "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py"
Created by Nicholas Caballero
```

```
Enter your username:
professor
Enter your password:
letmein428
Successful Login
```

Created by Nicholas Caballero

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: Exit
```

Exit successful

Termination successful

Created by Nicholas Caballero

```
PS C:\Users\ncaba> █
```

```
PS C:\Users\ncaba> & C:/Users/ncaba/AppData/Local/Programs/Python/Python37/python.exe "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py"
Created by Nicholas Caballero
```

```
Enter your username:
nicholas.caballero32
Enter your password:
letmein428
```

```
Traceback (most recent call last):
  File "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py", line 23, in <module>
    while (username!=str(queryNameResult[0][0]) or password!=str(queryNameResult[0][1])):
IndexError: list index out of range
```

```
PS C:\Users\ncaba> █
```

```
PS C:\Users\ncaba> & C:/Users/ncaba/AppData/Local/Programs/Python/Python37/python.exe "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py"
Created by Nicholas Caballero

Enter your username:
nicholas.caballero363
Enter your password:
letmein42
Error: Wrong username and password

Enter your username:
nicholas.caballero363
Enter your password:
letmein420
Successful Login

Created by Nicholas Caballero

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: Exit

Exit successful

Termination successful

Created by Nicholas Caballero

PS C:\Users\ncaba> |
```

## Part II

Ease of Use (15pts) - The system is simple and easy to use for the end-user and provides explicitly instructions for functionality. In the space below, provide screenshots of the system interface (i.e. login system, menu structures for CRUD commands and sample data response formatting). Remember to display your name in all output.

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: C

Please select what type of data you would like to create
Type "L" to make a new line number
Type "O" to make a new order
Type "P" to make a new product
Type "S" to make a new sales rep
Type "V" to make a new vendor
Command: L
```

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R
```

```
Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: L
```

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R
```

```
Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other
```

```
Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 1
```

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: U
```

```
Please select what type of data you would like to update
Type "L" to make a new line number
Type "O" to make a new order
Type "P" to make a new product
Type "S" to make a new sales rep
Type "V" to make a new vendor
Command: S
```

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: D
```

```
Please select what type of data you would like to delete
Type "L" to delete a line number
Type "O" to delete a order
Type "P" to delete a product
Type "S" to delete a sales rep
Type "V" to delete a vendor
Command: L
```

```
Please enter in the order ID number and the line number in the following format:
order_id, line_number
Please enter in the order ID and the line number here: 10061,5
```

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R
```

```
Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other
```

```
Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 3
```

```
+-----+
| product_name |
+-----+
| Airframe fasteners |
| Bolt-nut package |
| Control Panel |
| Door Decal |
| Electrical Connector |
| Gasket |
| Hatch Decal |
| Machined Valve |
| O-Ring |
| Panel Decal |
| Pressure Gauge |
| Shielded Cable/ft. |
| Side Panel |
+-----+
```

```
Please select a product from the list above and type it exactly as listed above
Product Name: Side Panel
```

```

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R

Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 4
+-----+
| vendor_id | vendor_name |
+-----+
| 1001 | Hulkey Fasteners |
| 1002 | Spacetime Technologies |
| 1003 | Durrable Products |
| 1004 | Fast-Tie Aerospace |
| 1005 | Alum Sheeting |
| 1006 | Steelpin Inc. |
| 1007 | Manley Valve |
| 1008 | Pylon Accessories |
| 1009 | test |
| 1012 | test |
| 1014 | test14 |
| 1015 | test14 |
+-----+

Please select a vendor from above and type in the corresponding vendor_id as well as the start date and end date in the following format:
vendor_id, "start date" (year/month/day), "end date" (year/month/day)
Enter in your input here: 1001, "2020/10/2", "2020/11/25"

```

```

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R

Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 2

```

## Update

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: U
```

```
Please select what type of data you would like to update
Type "L" to make a new line number
Type "O" to make a new order
Type "P" to make a new product
Type "S" to make a new sales rep
Type "V" to make a new vendor
Command: L
```

```
Please enter in the order ID number and the line number in the following format:
order_id, line number
Please enter in the order ID and the line number here: 10061,5
```

This is the current information stored:

order_id	line_number	product_id	price	order_quantity
10061	5	9967	0.98	604

```
Please enter all information (regardless if it's old or new) in the following format:
product_id, price, order_quantity
Please enter in the product ID, price, and order quantity here:9967,0.96,604
```

This is the newly-updated information stored:

order_id	line_number	product_id	price	order_quantity
10061	5	9967	0.96	604

Queried by nicholas.caballero363 on 11/26/2020, 02:54:27

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: █
```



Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: U

Please select what type of data you would like to update  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: O

Please enter in the order ID number here: 10067

This is the current information stored:

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date
10067	1007	9002231	2020-09-22	2020-10-09

Please enter all information (regardless if it's old or new) in the following format:  
vendor\_id, sales\_rep\_id, 'order\_date', 'estimated\_arrival\_date'  
Enter in the information here: 1007,9002231,'2020/09/23','2020/10/09'

This is the newly-updated information stored:

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date
10067	1007	9002231	2020-09-23	2020-10-09

Queried by nicholas.caballero363 on 11/26/2020, 02:59:22

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command:

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: U

Please select what type of data you would like to update  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: P  
Please enter in the product ID number here:9988

This is the current information stored:

product_id	vendor_id	product_name	product_description	price
9988	1001	Airframe fasteners	Airframe fasteners by Hulkey Fasteners	4.89

Please enter all information (regardless if it's old or new) in the following format:  
vendor\_id, 'product\_name', 'product\_description', price  
Enter in the information here: 1001,'Airframe fasteners','Airframe fasteners by Hulkey',4.66

This is the newly-updated information stored:

product_id	vendor_id	product_name	product_description	price
9988	1001	Airframe fasteners	Airframe fasteners by Hulkey	4.66

Queried by nicholas.caballero363 on 11/26/2020, 03:00:56

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: U

Please select what type of data you would like to update  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: S  
Please enter in the sales rep ID number here:9000000

This is the current information stored:

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id
9000000	Allie Jones	810-567-2367	allieJ@hulkeyfasteners.com	1001

Please enter all information (regardless if it's old or new) in the following format:  
'sales\_rep\_name', 'sales\_rep\_telephone\_number', 'sales\_rep\_email', vendor\_id  
Enter in the information here: 'Allie Smith', '810-567-2367', 'allieS@hulkeyfasteners.com', 1001

This is the newly-updated information stored:

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id
9000000	Allie Smith	810-567-2367	allieS@hulkeyfasteners.com	1001

Queried by nicholas.caballero363 on 11/26/2020, 03:01:58

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: U

Please select what type of data you would like to update  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: V

Please enter in the vendor ID number here:1017

This is the current information stored:

vendor_id	vendor_name	account_payable_terms
1017	test14	27

Please enter all information (regardless if it's old or new) in the following format:  
'vendor\_name', account\_payable\_terms  
Enter in the information here: 'test14', 35

This is the newly-updated information stored:

vendor_id	vendor_name	account_payable_terms
1017	test14	35

Queried by nicholas.caballero363 on 11/26/2020, 03:02:49

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █

## Part III

Usefulness (20pts) – Of a suitable level of complexity, your system will include functionality for querying (creating, reading, updating, deleting) pertinent database information, including dynamic information, based on arguments passed in from the application. Try to use views and stored procedures created in Lab 5. In the space below, provide screenshots of your system's query execution (views, stored procedures). For all output, remember to display your name and the date your query was executed.

### Create

```
PS C:\Users\ncaba> & C:/Users/ncaba/AppData/Local/Programs/Python/Python37/python.exe "c:/Users/ncaba/Documents/School Stuff/Fall 2020/Databases/Labs/Lab 6/main.py"
Created by Nicholas Caballero

Enter your username:
nicholas.caballero363
Enter your password:
letmein420
Successful Login

Created by Nicholas Caballero

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: C

Please select what type of data you would like to create
Type "L" to make a new line number
Type "O" to make a new order
Type "P" to make a new product
Type "S" to make a new sales rep
Type "V" to make a new vendor
Command: L

Enter the new line number in the following format:
order_id, line_number, product_id, price, order_quantity
Enter new line number here: 10061,5,9967,0.98,604

Queried by nicholas.caballero363 on 11/26/2020, 02:17:20

This shows that the data has been added:

+-----+-----+-----+-----+-----+
| order_id | line_number | product_id | price | order_quantity |
+-----+-----+-----+-----+-----+
| 10061 | 5 | 9967 | 0.98 | 604 |
+-----+-----+-----+-----+-----+

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: 
```

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: C

Please select what type of data you would like to create  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: O

Enter the new order in the following format:  
order\_id, vendor\_id, sales\_rep\_id, 'order\_date'(year/month/day), 'estimated\_arrival\_date'(year/month/day)  
Enter new order here: 10067,1007,9002231,'2020/09/22','2020/10/09'

Queried by nicholas.caballero363 on 11/26/2020, 02:20:21

This shows that the data has been added:

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date
10067	1007	9002231	2020-09-22	2020-10-09

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: C

Please select what type of data you would like to create  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: P

Enter the new product in the following format:  
product\_id, vendor\_id, 'product\_name', 'product\_description', price  
Enter new product here: 9988,1001,'Airframe fasteners','Airframe fasteners by Hulkey Fasteners',4.89

Queried by nicholas.caballero363 on 11/26/2020, 02:21:31

This shows that the data has been added:

product_id	vendor_id	product_name	product_description	price
9988	1001	Airframe fasteners	Airframe fasteners by Hulkey Fasteners	4.89

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: C

Please select what type of data you would like to create  
Type "L" to make a new line number  
Type "O" to make a new order  
Type "P" to make a new product  
Type "S" to make a new sales rep  
Type "V" to make a new vendor  
Command: S

Enter the new order in the following format:  
sales\_rep\_id, 'sales\_rep\_name', 'sales\_rep\_telephone\_number', 'sales\_rep\_email', vendor\_id  
Enter new sales rep here: 9000000, 'Allie Jones', '810-567-2367', 'allieJ@hulkeyfasteners.com', 1001

Queried by nicholas.caballero363 on 11/26/2020, 02:23:49

This shows that the data has been added:

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id
9000000	Allie Jones	810-567-2367	allieJ@hulkeyfasteners.com	1001

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █



```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: C
```

```
Please select what type of data you would like to create
Type "L" to make a new line number
Type "O" to make a new order
Type "P" to make a new product
Type "S" to make a new sales rep
Type "V" to make a new vendor
Command: V
```

```
Enter the new vendor in the following format:
vendor_id, 'vendor_name', account_payable_terms
Enter new vendor here: 1017, 'test14', 27
```

```
Queried by nicholas.caballero363 on 11/26/2020, 02:28:43
```

```
This shows that the data has been added:
```

+	-----+	-----+	-----+
	vendor_id	vendor_name	account_payable_terms
+	-----+	-----+	-----+
	1017	test14	27
+	-----+	-----+	-----+

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: 
```

## Read

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R
```

```
Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: L
```

order_id	line_number	product_id	price	order_quantity
10001	1	1122	4.89	21450
10001	2	5066	1.09	15950
10001	3	3166	1.44	4400
10002	1	1243	4.89	11000
10002	2	4224	4.54	5500
10002	3	5417	293.25	447
10003	1	5462	1.21	25300
10003	2	6321	2.82	1430
10004	1	5462	1.21	23650
10005	1	5319	1.27	19250
10005	2	4312	4.31	4675
10006	1	5462	1.21	24750
10006	2	6321	2.82	1320
10007	1	3166	1.44	5610
10007	2	9966	0.86	550
10008	1	4312	4.31	4125
10008	2	5319	1.27	19910
10008	3	5234	1.9	4620
10009	1	5462	1.21	23100
10009	2	5166	1.44	4180
10009	3	6321	2.82	2750
10010	1	7260	103.5	110
10010	2	1369	4.83	14850
10010	3	9399	4.2	1375
10011	1	3166	1.44	6050
10012	1	4312	4.31	4620
10012	2	5234	1.9	5335
10013	1	4312	4.31	4565
10013	2	5234	1.9	5225

10013	2	5234	1.9	5225
10013	3	5319	1.27	18150
10013	4	8008	741.75	110
10014	1	1122	4.89	17050
10015	1	1122	4.89	13750
10015	2	3166	1.44	5720
10015	3	5066	1.09	2640
10016	1	1243	4.89	9900
10017	1	4111	4.08	5280
10017	2	9752	4.66	1650
10018	1	7258	115.58	132
10019	1	1122	4.89	16500
10020	1	3166	1.44	5500
10020	2	5066	1.09	19250
10021	1	4111	4.08	5044
10021	2	9752	4.66	1430
10022	1	4111	4.08	4620
10022	2	9752	4.66	1403
10022	3	6489	3.45	1210
10023	1	4111	4.08	4675
10024	1	9752	4.66	1595
10024	2	6489	3.45	1155
10025	1	9764	4.31	2178
10025	2	6433	3.39	1375
10026	1	9764	4.31	1925
10027	1	4111	4.08	4565
10027	2	9752	4.66	1705
10027	3	6489	3.45	990
10028	1	6431	3.28	1430
10028	2	7258	115.28	99
10029	1	9764	4.31	2035
10030	1	1369	4.83	15400
10031	1	1122	4.89	15950
10031	2	5066	1.09	1705
10032	1	9764	4.31	1980
10032	2	6433	3.39	1650
10033	1	1369	4.83	11000
10034	1	1122	4.89	19800
10035	1	5125	1.32	16500
10035	2	4111	4.08	5060
10035	3	6489	3.45	1210
10036	1	6431	3.28	1485
10037	1	9399	4.2	1375
10038	1	9399	4.2	1595
10038	2	4569	4.03	4290
10039	1	6431	3.28	1375
10039	2	7258	115.58	99
10039	3	8148	753.83	138

10039	3	8148	753.83	138
10040	1	9399	4.2	2184
10040	2	5454	253.0	605
10041	1	9399	4.2	1617
10041	2	5454	253.0	385
10042	1	1243	4.89	11550
10043	1	4224	4.54	4950
10044	1	1122	4.89	18700
10044	2	3166	1.44	5968
10045	1	6321	2.82	1375
10046	1	8008	741.75	165
10047	1	5417	293.25	605
10047	2	5634	21.75	165
10048	1	1122	4.89	19250
10049	1	5275	1.15	27500
10050	1	5689	201.25	171
10051	1	6321	2.82	1650
10052	1	5677	224.25	143
10053	1	8008	741.75	132
10053	2	5677	224.25	132
10054	1	5634	212.75	154
10055	1	6489	3.45	1155
10056	1	5689	201.25	165
10056	2	5462	1.21	22825
10056	3	7268	109.25	121
10057	1	9955	0.63	165
10057	2	7258	115.58	110
10058	1	9955	0.63	220
10058	2	9977	1.15	578
10058	3	7258	115.58	105
10059	1	5677	224.25	121
10060	1	5689	201.25	193
10060	2	7268	109.25	116
10061	1	9955	0.63	138
10061	2	9977	1.15	578
10061	3	9967	0.98	605
10061	5	9967	0.98	604
+-----+-----+-----+-----+-----+				
Queried by nicholas.caballero363 on 11/26/2020, 02:29:46				

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: R

Please select a table to read from  
Type "L" to read from the line number table  
Type "O" to read from the order table  
Type "P" to read from the product table  
Type "S" to read from the sales rep table  
Type "V" to read from the vendor table  
Type "Other" to select from a list of queries with multiple tables involved  
Command: O

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date
10001	1001	9002131	2020-06-19	2020-07-09
10002	1005	9002141	2020-06-22	2020-07-10
10003	1004	9002151	2020-06-24	2020-07-11
10004	1004	9002161	2020-06-29	2020-07-18
10005	1006	9002171	2020-07-04	2020-07-27
10006	1004	9002161	2020-07-04	2020-07-22
10007	1001	9002131	2020-07-09	2020-07-25
10008	1006	9002181	2020-07-09	2020-07-28
10009	1004	9002151	2020-07-09	2020-07-29
10010	1003	9002191	2020-07-09	2020-07-24
10011	1001	9002201	2020-07-16	2020-08-02
10012	1006	9002171	2020-07-16	2020-08-06
10013	1006	9002171	2020-07-18	2020-08-07
10014	1001	9002201	2020-07-19	2020-08-08
10015	1001	9002131	2020-07-20	2020-08-07
10016	1005	9002211	2020-07-20	2020-08-08
10017	1002	9002221	2020-07-20	2020-08-16
10018	1007	9002231	2020-07-20	2020-08-05
10019	1001	9002201	2020-07-23	2020-08-11
10020	1001	9002201	2020-07-25	2020-08-13
10021	1002	9002221	2020-07-25	2020-08-26
10022	1002	9002221	2020-07-30	2020-09-10
10023	1002	9002241	2020-08-04	2020-09-05

10023	1002	9002241	2020-08-04	2020-09-05
10024	1002	9002241	2020-08-04	2020-08-21
10025	1008	9002251	2020-08-04	2020-08-25
10026	1008	9002251	2020-08-07	2020-08-24
10027	1002	9002221	2020-08-09	2020-09-20
10028	1007	9002231	2020-08-09	2020-08-27
10029	1008	9002251	2020-08-09	2020-08-31
10030	1003	9002191	2020-08-11	2020-08-29
10031	1001	9002131	2020-08-12	2020-08-29
10032	1008	9002251	2020-08-12	2020-08-31
10033	1003	9002261	2020-08-13	2020-08-30
10034	1001	9002131	2020-08-15	2020-09-03
10035	1002	9002221	2020-08-15	2020-09-10
10036	1007	9002231	2020-08-15	2020-09-02
10037	1003	9002191	2020-08-15	2020-09-01
10038	1003	9002261	2020-08-17	2020-09-03
10039	1007	9002231	2020-08-19	2020-09-05
10040	1003	9002191	2020-08-19	2020-09-06
10041	1003	9002191	2020-08-21	2020-09-07
10042	1005	9002211	2020-08-24	2020-09-12
10043	1005	9002141	2020-08-24	2020-09-12
10044	1001	9002131	2020-08-25	2020-09-14
10045	1004	9002161	2020-08-26	2020-09-16
10046	1006	9002181	2020-08-29	2020-09-21
10047	1005	9002211	2020-09-03	2020-09-22
10048	1001	9002201	2020-09-08	2020-09-29
10049	1003	9002261	2020-09-08	2020-09-25
10050	1004	9002161	2020-09-08	2020-09-29
10051	1004	9002151	2020-09-08	2020-09-28
10052	1006	9002171	2020-09-11	2020-10-03
10053	1006	9002181	2020-09-11	2020-09-30
10054	1005	9002141	2020-09-12	2020-09-30
10055	1002	9002241	2020-09-12	2020-10-06
10056	1004	9002151	2020-09-15	2020-10-05
10057	1007	9002231	2020-09-15	2020-10-02
10058	1007	9002231	2020-09-19	2020-10-07
10059	1006	9002171	2020-09-19	2020-10-13
10060	1004	9002161	2020-09-19	2020-10-11
10061	1007	9002231	2020-09-22	2020-10-10
10062	1007	9002231	2020-09-22	2020-10-09
10063	1007	9002231	2020-09-22	2020-10-09
10067	1007	9002231	2020-09-22	2020-10-09

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Enter "C" to Create new data  
 Enter "R" to Read from the database  
 Enter "U" to Update currently existing data  
 Enter "D" to Delete data  
 Enter "Exit" to terminate the program  
 Command: R

Please select a table to read from  
 Type "L" to read from the line number table  
 Type "O" to read from the order table  
 Type "P" to read from the product table  
 Type "S" to read from the sales rep table  
 Type "V" to read from the vendor table  
 Type "Other" to select from a list of queries with multiple tables involved  
 Command: P

product_id	vendor_id	product_name	product_description	price
1122	1001	Airframe fasteners	Airframe fasteners by Hulkey Fasteners	4.89
1243	1005	Airframe fasteners	Airframe fasteners by Alum Sheeting	4.89
1369	1003	Airframe fasteners	Airframe fasteners by Durrable Products	4.83
3166	1001	Electrical Connector	Electrical Connector by Hulkey Fasteners	1.44
4111	1002	Bolt-nut package	Bolt-nut package by Spacetime Technologies	4.08
4224	1005	Bolt-nut package	Bolt-nut package by Alum Sheeting	4.54
4312	1006	Bolt-nut package	Bolt-nut package by Steelpin Inc.	4.31
4569	1003	Bolt-nut package	Bolt-nut package by Durrable Products	4.03
5066	1001	Shielded Cable/ft.	Shielded Cable/ft. by Hulkey Fasteners	1.09
5125	1002	Shielded Cable/ft.	Shielded Cable/ft. by Spacetime Technologies	1.32
5166	1004	Electrical Connector	Electrical Connector by Fast-Tie Aerospace	1.44
5234	1006	Electrical Connector	Electrical Connector by Steelpin Inc.	1.90
5275	1003	Shielded Cable/ft.	Shielded Cable/ft. by Durrable Products	1.15
5319	1006	Shielded Cable/ft.	Shielded Cable/ft. by Steelpin Inc.	1.27
5417	1005	Control Panel	Control Panel by Alum Sheeting	293.25
5454	1003	Control Panel	Control Panel by Durrable Products	253.00
5462	1004	Shielded Cable/ft.	Shielded Cable/ft. by Fast-Tie Aerospace	1.21
5634	1005	Side Panel	Side Panel by Alum Sheeting	212.75
5677	1006	Side Panel	Side Panel by Steelpin Inc.	224.25
5689	1004	Side Panel	Side Panel by Fast-Tie Aerospace	201.25
6321	1004	O-Ring	O-Ring by Fast-Tie Aerospace	2.82
6431	1007	O-Ring	O-Ring by Manley Valve	3.28
6433	1008	O-Ring	O-Ring by Pylon Accessories	3.39
6489	1002	O-Ring	O-Ring by Spacetime Technologies	3.45
7258	1007	Pressure Gauge	Pressure Gauge by Manley Valve	115.58
7260	1003	Pressure Gauge	Pressure Gauge by Durrable Products	103.50
7268	1004	Pressure Gauge	Pressure Gauge by Fast-Tie Aerospace	109.25
8008	1006	Machined Valve	Machined Valve by Steelpin Inc.	741.75
8148	1007	Machined Valve	Machined Valve by Manley Valve	753.83
9399	1003	Gasket	Gasket by Durrable Products	4.20
9752	1002	Gasket	Gasket by Spacetime Technologies	4.66

9752	1002	Gasket	Gasket by Spacetime Technologies	4.66
9764	1008	Gasket	Gasket by Pylon Accessories	4.31
9955	1007	Door Decal	Door Decal by Manley Valve	0.63
9966	1001	Hatch Decal	Hatch Decal by Hulkey Fasteners	0.86
9967	1007	Hatch Decal	Hatch Decal by Manley Valve	0.98
9977	1007	Panel Decal	Panel Decal by Manley Valve	1.15
9988	1001	Airframe fasteners	Airframe fasteners by Hulkey Fasteners	4.89

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Please enter in a command  
 Enter "C" to Create new data  
 Enter "R" to Read from the database  
 Enter "U" to Update currently existing data  
 Enter "D" to Delete data  
 Enter "Exit" to terminate the program  
 Command: R

Please select a table to read from  
 Type "L" to read from the line number table  
 Type "O" to read from the order table  
 Type "P" to read from the product table  
 Type "S" to read from the sales rep table  
 Type "V" to read from the vendor table  
 Type "Other" to select from a list of queries with multiple tables involved  
 Command: S

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id
9000000	Allie Jones	810-567-2367	allieJ@hulkeyfasteners.com	1001
9002131	Allie Ribato	810-567-2342	allie@hulkeyfasteners.com	1001
9002141	Sandra Berns	810-526-7998	sb@assupplies.org	1005
9002151	Mark Wilcox	810-435-9300	wilcox@fta.org	1004
9002161	Michael Innsbrook	810-435-9395	innsbrook@fta.org	1004
9002171	Bob Edwards	323-543-5932	bob@steelpininc.com	1006
9002181	Roger Dobbs	323-543-5933	roger@steelpininc.com	1006
9002191	Bob Sandstorm	923-452-3838	bob@durrable.com	1003
9002201	John Ramos	810-567-2313	john@hulkeyfasteners.com	1001
9002211	Phillip Sellers	810-526-7940	ps@assupplies.org	1005
9002221	Lance Jakobs	563-234-2698	lance@spacetimech.com	1002
9002231	Henry Adams	655-789-9090	hadams@manleyvalve.com	1007
9002241	Sandy Crawley	563-234-2622	sandy@spacetimech.com	1002
9002251	Hank Williams	656-898-2398	hank@pylonaccessories.com	1008
9002261	Nancy Woodruff	923-452-3820	nancy@durrable.com	1003

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Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: R

Please select a table to read from  
Type "L" to read from the line number table  
Type "O" to read from the order table  
Type "P" to read from the product table  
Type "S" to read from the sales rep table  
Type "V" to read from the vendor table  
Type "Other" to select from a list of queries with multiple tables involved  
Command: V

vendor_id	vendor_name	account_payable_terms
1001	Hulkey Fasteners	30
1002	Spacetime Technologies	25
1003	Durrable Products	45
1004	Fast-Tie Aerospace	30
1005	Alum Sheeting	30
1006	Steelpin Inc.	30
1007	Manley Valve	30
1008	Pylon Accessories	15
1009	test	27
1012	test	27
1014	test14	27
1015	test14	27
1017	test14	27

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Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command:

Please enter in a command  
 Enter "C" to Create new data  
 Enter "R" to Read from the database  
 Enter "U" to Update currently existing data  
 Enter "D" to Delete data  
 Enter "Exit" to terminate the program  
 Command: R

Please select a table to read from  
 Type "L" to read from the line number table  
 Type "O" to read from the order table  
 Type "P" to read from the product table  
 Type "S" to read from the sales rep table  
 Type "V" to read from the vendor table  
 Type "Other" to select from a list of queries with multiple tables involved  
 Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor  
 Type "2" to see a list of all products and the total in sales by sales rep  
 Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price  
 Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest  
 Please type your command here: 1

Sales Rep	Vendor Name	Email	Telephone	Query Runner / Date
Sandra Berns	Alum Sheeting	sb@assupplies.org	810-526-7998	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Phillip Sellers	Alum Sheeting	ps@assupplies.org	810-526-7940	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Bob Sandstorm	Durrable Products	bob@durrable.com	923-452-3838	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Nancy Woodruff	Durrable Products	nancy@durrable.com	923-452-3820	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Mark Wilcox	Fast-Tie Aerospace	wilcox@fta.org	810-435-9300	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Michael Innsbrook	Fast-Tie Aerospace	innsbrook@fta.org	810-435-9395	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Allie Jones	Hulkey Fasteners	allie@hulkeyfasteners.com	810-567-2367	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Allie Ribato	Hulkey Fasteners	allie@hulkeyfasteners.com	810-567-2342	Queried by Nicholas Caballero on 2020-11-26 02:36:10
John Ramos	Hulkey Fasteners	john@hulkeyfasteners.com	810-567-2313	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Henry Adams	Manley Valve	hadams@manleyvalve.com	655-789-9090	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Hank Williams	Pylon Accessories	hank@pylonaccessories.com	656-898-2398	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Lance Jakobs	Spacetime Technologies	lance@spacetimetechnology.com	563-234-2698	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Sandy Crawley	Spacetime Technologies	sandy@spacetimetechnology.com	563-234-2622	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Bob Edwards	Steelpin Inc.	bob@steelpininc.com	323-543-5932	Queried by Nicholas Caballero on 2020-11-26 02:36:10
Roger Dobbs	Steelpin Inc.	roger@steelpininc.com	323-543-5933	Queried by Nicholas Caballero on 2020-11-26 02:36:10

Queried by nicholas.caballero363 on 11/26/2020, 02:36:10

Please enter in a command  
 Enter "C" to Create new data  
 Enter "R" to Read from the database  
 Enter "U" to Update currently existing data  
 Enter "D" to Delete data  
 Enter "Exit" to terminate the program  
 Command: R

Please select a table to read from  
 Type "L" to read from the line number table  
 Type "O" to read from the order table  
 Type "P" to read from the product table  
 Type "S" to read from the sales rep table  
 Type "V" to read from the vendor table  
 Type "Other" to select from a list of queries with multiple tables involved  
 Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor  
 Type "2" to see a list of all products and the total in sales by sales rep  
 Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price  
 Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest  
 Please type your command here: 2

Product Name	Sales Rep	Vendor Name	Sales Total by Product	Query Runner / Date
Airframe fasteners	Allie Ribato	Hulkey Fasteners	696580.50	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Shielded Cable/ft.	Allie Ribato	Hulkey Fasteners	43104.05	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Electrical Connector	Allie Ribato	Hulkey Fasteners	47877.12	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Hatch Decal	Allie Ribato	Hulkey Fasteners	473.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Airframe fasteners	Sandra Berns	Alum Sheeting	158680.50	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Bolt-nut package	Sandra Berns	Alum Sheeting	47443.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Control Panel	Sandra Berns	Alum Sheeting	308499.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Side Panel	Sandra Berns	Alum Sheeting	67867.25	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Shielded Cable/ft.	Mark Wilcox	Fast-Tie Aerospace	144746.25	Queried by Nicholas Caballero on 2020-11-26 02:36:47
O-Ring	Mark Wilcox	Fast-Tie Aerospace	24040.50	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Electrical Connector	Mark Wilcox	Fast-Tie Aerospace	6019.20	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Side Panel	Mark Wilcox	Fast-Tie Aerospace	106461.25	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Pressure Gauge	Mark Wilcox	Fast-Tie Aerospace	25892.25	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Shielded Cable/ft.	Bob Edwards	Steelpin Inc.	72783.70	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Bolt-nut package	Bob Edwards	Steelpin Inc.	77515.35	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Electrical Connector	Bob Edwards	Steelpin Inc.	28842.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Machined Valve	Bob Edwards	Steelpin Inc.	301892.25	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Side Panel	Bob Edwards	Steelpin Inc.	88803.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Pressure Gauge	Bob Sandstorm	Durrable Products	11385.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Pressure Gauge	Bob Sandstorm	Durrable Products	11385.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Airframe fasteners	Bob Sandstorm	Durrable Products	199237.50	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Gasket	Bob Sandstorm	Durrable Products	34213.20	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Control Panel	Bob Sandstorm	Durrable Products	250470.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Bolt-nut package	Lance Jakobs	Spacetime Technologies	119315.52	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Gasket	Lance Jakobs	Spacetime Technologies	36268.78	Queried by Nicholas Caballero on 2020-11-26 02:36:47
O-Ring	Lance Jakobs	Spacetime Technologies	19734.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Shielded Cable/ft.	Lance Jakobs	Spacetime Technologies	21780.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Pressure Gauge	Henry Adams	Manley Valve	62991.10	Queried by Nicholas Caballero on 2020-11-26 02:36:47
O-Ring	Henry Adams	Manley Valve	14071.20	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Machined Valve	Henry Adams	Manley Valve	104028.54	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Door Decal	Henry Adams	Manley Valve	329.49	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Panel Decal	Henry Adams	Manley Valve	1329.40	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Hatch Decal	Henry Adams	Manley Valve	1184.82	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Gasket	Hank Williams	Pylon Accessories	34988.58	Queried by Nicholas Caballero on 2020-11-26 02:36:47
O-Ring	Hank Williams	Pylon Accessories	10254.75	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Bolt-nut package	Nancy Woodruff	Durrable Products	17288.70	Queried by Nicholas Caballero on 2020-11-26 02:36:47
Shielded Cable/ft.	Nancy Woodruff	Durrable Products	31625.00	Queried by Nicholas Caballero on 2020-11-26 02:36:47

Queried by nicholas.caballero363 on 11/26/2020, 02:36:47

Please enter in a command  
 Enter "C" to Create new data  
 Enter "R" to Read from the database  
 Enter "U" to Update currently existing data  
 Enter "D" to Delete data  
 Enter "Exit" to terminate the program  
 Command: █

```

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R

Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 3

```

product name
Airframe fasteners
Bolt-nut package
Control Panel
Door Decal
Electrical Connector
Gasket
Hatch Decal
Machined Valve
O-Ring
Panel Decal
Pressure Gauge
Shielded Cable/ft.
Side Panel

```

Please select a product from the list above and type it exactly as listed above
Product Name: Side Panel

```

Vendor Name	Product Name	Product Price	Product Description	Product ID	Query Runner / Date
Alum Sheeting	Side Panel	212.75	Side Panel by Alum Sheeting	5634	Queried by Nicholas Caballero on 2020-11-26 02:38:18
Steelpin Inc.	Side Panel	224.25	Side Panel by Steelpin Inc.	5677	Queried by Nicholas Caballero on 2020-11-26 02:38:18
Fast-Tie Aerospace	Side Panel	201.25	Side Panel by Fast-Tie Aerospace	5689	Queried by Nicholas Caballero on 2020-11-26 02:38:18

```

Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 3
+-----+
| product_name |
+-----+
| Airframe fasteners |
| Bolt-nut package |
| Control Panel |
| Door Decal |
| Electrical Connector |
| Gasket |
| Hatch Decal |
| Machined Valve |
| O-Ring |
| Panel Decal |
| Pressure Gauge |
| Shielded Cable/ft. |
| Side Panel |
+-----+

Please select a product from the list above and type it exactly as listed above
Product Name: Side Panel
+-----+-----+-----+-----+-----+-----+
| Vendor Name | Product Name | Product Price | Product Description | Product ID | Query Runner / Date |
+-----+-----+-----+-----+-----+-----+
| Alum Sheeting | Side Panel | 212.75 | Side Panel by Alum Sheeting | 5634 | Queried by Nicholas Caballero on 2020-11-26 02:38:18 |
| Steelpin Inc. | Side Panel | 224.25 | Side Panel by Steelpin Inc. | 5677 | Queried by Nicholas Caballero on 2020-11-26 02:38:18 |
| Fast-Tie Aerospace | Side Panel | 201.25 | Side Panel by Fast-Tie Aerospace | 5689 | Queried by Nicholas Caballero on 2020-11-26 02:38:18 |
+-----+-----+-----+-----+-----+-----+

Queried by nicholas.caballero363 on 11/26/2020, 02:38:18

```

```

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: R

Please select a table to read from
Type "L" to read from the line number table
Type "O" to read from the order table
Type "P" to read from the product table
Type "S" to read from the sales rep table
Type "V" to read from the vendor table
Type "Other" to select from a list of queries with multiple tables involved
Command: Other

Type "1" to see a list of sales reps and their contact info ordered by vendor
Type "2" to see a list of all products and the total in sales by sales rep
Type "3" to see a list of vendors that sell a specific product sorted from lowest to highest price
Type "4" to see a list of orders from a particular vendor that fall between a start date and an end date sorted by order date newest to oldest
Please type your command here: 4
+-----+-----+
| vendor_id | vendor_name |
+-----+-----+
| 1001 | Hulkey Fasteners |
| 1002 | Spacetime Technologies |
| 1003 | Durrable Products |
| 1004 | Fast-Tie Aerospace |
| 1005 | Alum Sheeting |
| 1006 | Steelpin Inc. |
| 1007 | Manley Valve |
| 1008 | Pylon Accessories |
| 1009 | test |
| 1012 | test |
| 1014 | test14 |
| 1015 | test14 |
| 1017 | test14 |
+-----+-----+

Please select a vendor from above and type in the corresponding vendor_id as well as the start date and end date in the following format:
vendor_id, "start date" (year/month/day), "end date" (year/month/day)
Enter in your input here: 1001, "2020/09/22", "2020/11/25"
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Order ID | Vendor Name | Line Item | Product Name | Sales Price | Quantity | Line Item Cost | Order Date | Est. Arrival |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10061 | Hulkey Fasteners | 1 | Door Decal | 0.63 | 138 | 86.94 | 2020-09-22 | 2020-10-10 |
| 10061 | Hulkey Fasteners | 2 | Panel Decal | 1.15 | 578 | 664.70 | 2020-09-22 | 2020-10-10 |
| 10061 | Hulkey Fasteners | 3 | Hatch Decal | 0.98 | 605 | 592.90 | 2020-09-22 | 2020-10-10 |
| 10061 | Hulkey Fasteners | 5 | Hatch Decal | 0.98 | 604 | 591.92 | 2020-09-22 | 2020-10-10 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

Queried by nicholas.caballero363 on 11/26/2020, 02:41:43

## Delete

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: D

Please select what type of data you would like to delete
Type "L" to delete a line number
Type "O" to delete a order
Type "P" to delete a product
Type "S" to delete a sales rep
Type "V" to delete a vendor
Command: L

Please enter in the order ID number and the line number in the following format:
order_id, line_number
Please enter in the order ID and the line number here: 10061,5

This is the current information stored:

+-----+-----+-----+-----+-----+
| order_id | line_number | product_id | price | order_quantity |
+-----+-----+-----+-----+-----+
| 10061    | 5          | 9967      | 0.96  | 604            |
+-----+-----+-----+-----+-----+

This shows that the data has been deleted:

+-----+-----+-----+-----+-----+
| order_id | line_number | product_id | price | order_quantity |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

Queried by nicholas.caballero363 on 11/26/2020, 03:05:16

Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: █
```

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: D

Please select what type of data you would like to delete  
Type "L" to delete a line number  
Type "O" to delete a order  
Type "P" to delete a product  
Type "S" to delete a sales rep  
Type "V" to delete a vendor  
Command: O

Please enter in the order ID number here: 10067

This is the current information stored:

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date
10067	1007	9002231	2020-09-23	2020-10-09

This shows that the data has been deleted:

order_id	vendor_id	sales_rep_id	order_date	estimated_arrival_date

Queried by nicholas.caballero363 on 11/26/2020, 03:08:35

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: █



```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: D
```

```
Please select what type of data you would like to delete
Type "L" to delete a line number
Type "O" to delete a order
Type "P" to delete a product
Type "S" to delete a sales rep
Type "V" to delete a vendor
Command: P
Please enter in the product ID number here:9988
```

This is the current information stored:

product_id	vendor_id	product_name	product_description	price
9988	1001	Airframe fasteners	Airframe fasteners by Hulkey	4.66

This shows that the data has been deleted:

product_id	vendor_id	product_name	product_description	price

Queried by nicholas.caballero363 on 11/26/2020, 03:09:36

```
Please enter in a command
Enter "C" to Create new data
Enter "R" to Read from the database
Enter "U" to Update currently existing data
Enter "D" to Delete data
Enter "Exit" to terminate the program
Command: █
```

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: D

Please select what type of data you would like to delete  
Type "L" to delete a line number  
Type "O" to delete a order  
Type "P" to delete a product  
Type "S" to delete a sales rep  
Type "V" to delete a vendor  
Command: S  
Please enter in the sales rep ID number here:9000000

This is the current information stored:

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id
9000000	Allie Smith	810-567-2367	allieS@hulkeyfasteners.com	1001

This shows that the data has been deleted:

sales_rep_id	sales_rep_name	sales_rep_telephone_number	sales_rep_email	vendor_id

Queried by nicholas.caballero363 on 11/26/2020, 03:10:21

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command:

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: D

Please select what type of data you would like to delete  
Type "L" to delete a line number  
Type "O" to delete a order  
Type "P" to delete a product  
Type "S" to delete a sales rep  
Type "V" to delete a vendor  
Command: V  
Please enter in the vendor ID number here:1017

This is the current information stored:

vendor_id	vendor_name	account_payable_terms
1017	test14	35

This shows that the data has been deleted:

vendor_id	vendor_name	account_payable_terms
-----------	-------------	-----------------------

Queried by nicholas.caballero363 on 11/26/2020, 03:10:57

Please enter in a command  
Enter "C" to Create new data  
Enter "R" to Read from the database  
Enter "U" to Update currently existing data  
Enter "D" to Delete data  
Enter "Exit" to terminate the program  
Command: