Lze4, Evan Varan, Databases project 4

1)

8Queries.sql - VIKTO...(VIKTOR\Brick (56))*

```
USE RetailSalesDB;

--Query 1: Retrieve all items from the SKU_DATA Table
select * from SKU_DATA;
```

100 %

Results | Messages

	SKU	SKU_DESCRIPTION	DEPARTMENT	BUYER
1	100100	Std. Scuba Tank, Yellow	Water Sports	Pete Hansen
2	100200	Std. Scuba Tank, Magenta	Water Sports	Pete Hansen
3	100300	Std. Scuba Tank, Light Blue	Water Sports	Pete Hansen
4	100400	Std. Scuba Tank, Dark Blue	Water Sports	Pete Hansen
5	100500	Std. Scuba Tank, Light Green	Water Sports	Pete Hansen
6	100600	Std. Scuba Tank, Dark Green	Water Sports	Pete Hansen
7	101100	Dive Mask, Small Clear	Water Sports	Nancy Meyers
8	101200	Dive Mask, Med Clear	Water Sports	Nancy Meyers
9	201000	Half-dome Tent	Camping	Cindy Lo
10	202000	Half-dome Tent Vestibule	Camping	Cindy Lo
11	203000	Half-dome Tent Vestibule - Wide	Camping	Cindy Lo
12	301000	Light Fly Climbing Harness	Climbing	Jerry Martin
13	302000	Locking Carabiner, Oval	Climbing	Jerry Martin

2)

```
--Query 2: Join together SKU_DATA and ORDER_ITEM in one table.
select o.OrderNumber, o.SKU, o.Quantity, o.Price, o.ExtendedPrice,s.SKU_DESCRIPTION, s.DEPARTMENT, s.BUYER
from ORDER_ITEM o
join SKU_DATA s on o.SKU = s.SKU;
```

100 %

Results | Messages

	OrderNumber	SKU	Quantity	Price	ExtendedPrice	SKU_DESCRIPTION	DEPARTMENT	BUYER
1	1000	201000	1	300.00	300.00	Half-dome Tent	Camping	Cindy Lo
2	1000	202000	1	130.00	130.00	Half-dome Tent Vestibule	Camping	Cindy Lo
3	2000	101100	4	50.00	200.00	Dive Mask, Small Clear	Water Sports	Nancy Meyers
4	2000	101200	2	50.00	100.00	Dive Mask, Med Clear	Water Sports	Nancy Meyers
5	3000	100200	1	300.00	300.00	Std. Scuba Tank, Magenta	Water Sports	Pete Hansen
6	3000	101100	2	50.00	100.00	Dive Mask, Small Clear	Water Sports	Nancy Meyers
7	3000	101200	1	50.00	50.00	Dive Mask, Med Clear	Water Sports	Nancy Meyers

3)

```sql
--Query 3: Calculate the total value in dollars of all orders in the RETAIL_ORDER table,
--         relabel it in a new collumn named "TotalSales".
select format(sum(OrderTotal), 'C', 'en-US') as TotalSales from RETAIL_ORDER ;
```

100 %

Results | Messages

	TotalSales
1	$1,235.00

4)

```sql
--Query 4: Find Buyers who have an extended price of over $100
select BuyerName from BUYER
where BuyerName in ( --for each unqiue BuyerName in the BUYER table
    SELECT s.Buyer from ORDER_ITEM i
    join SKU_DATA s on i.SKU =s.SKU
    WHERE i.ExtendedPrice > 100

);
```

100 %

Results | Messages

	BuyerName
1	Cindy Lo
2	Nancy Meyers
3	Pete Hansen

5)

```
USE WPDatabase

--Query 5: Join the assignment and project tables based on project ID.
select a.ProjectID, a.EmployeeNumber, a.HoursWorked, p.ProjectName, p.Department,
p.MaxHours, p.StartDate,p.EndDate from ASSIGNMENT a
join PROJECT p on a.ProjectID = p.ProjectID;
```

100 %

Results | Messages

	ProjectID	EmployeeNumber	HoursWorked	ProjectName	Department	MaxHours	StartDate	EndDate
1	1000	1	30.00	2021 Q3 Production Plan	Production	100.00	2021-05-10	2021-06-15
2	1000	6	50.00	2021 Q3 Production Plan	Production	100.00	2021-05-10	2021-06-15
3	1000	10	50.00	2021 Q3 Production Plan	Production	100.00	2021-05-10	2021-06-15
4	1000	16	75.00	2021 Q3 Production Plan	Production	100.00	2021-05-10	2021-06-15
5	1000	17	75.00	2021 Q3 Production Plan	Production	100.00	2021-05-10	2021-06-15
6	1100	1	30.00	2021 Q3 Marketing Plan	Sales and Marketing	135.00	2021-05-10	2021-06-15
7	1100	6	75.00	2021 Q3 Marketing Plan	Sales and Marketing	135.00	2021-05-10	2021-06-15
8	1100	10	55.00	2021 Q3 Marketing Plan	Sales and Marketing	135.00	2021-05-10	2021-06-15
9	1100	11	55.00	2021 Q3 Marketing Plan	Sales and Marketing	135.00	2021-05-10	2021-06-15
10	1200	3	20.00	2021 Q3 Portfolio Analysis	Finance	120.00	2021-07-05	2021-07-25
11	1200	6	40.00	2021 Q3 Portfolio Analysis	Finance	120.00	2021-07-05	2021-07-25
12	1200	7	45.00	2021 Q3 Portfolio Analysis	Finance	120.00	2021-07-05	2021-07-25
13	1200	8	45.00	2021 Q3 Portfolio Analysis	Finance	120.00	2021-07-05	2021-07-25
14	1300	3	25.00	2021 Q3 Tax Preparation	Accounting	145.00	2021-08-10	2021-10-15
15	1300	6	40.00	2021 Q3 Tax Preparation	Accounting	145.00	2021-08-10	2021-10-15
16	1300	8	50.00	2021 Q3 Tax Preparation	Accounting	145.00	2021-08-10	2021-10-15
17	1300	9	50.00	2021 Q3 Tax Preparation	Accounting	145.00	2021-08-10	2021-10-15
18	1400	1	30.00	2021 Q4 Production Plan	Production	100.00	2021-08-10	2021-09-15
19	1400	6	50.00	2021 Q4 Production Plan	Production	100.00	2021-08-10	2021-09-15
20	1400	10	55.00	2021 Q4 Production Plan	Production	100.00	2021-08-10	2021-09-15
21	1400	16	75.00	2021 Q4 Production Plan	Production	100.00	2021-08-10	2021-09-15
22	1400	17	75.00	2021 Q4 Production Plan	Production	100.00	2021-08-10	2021-09-15
23	1500	1	30.00	2021 Q4 Marketing Plan	Sales and Marketing	135.00	2021-08-10	2021-09-15
24	1500	6	75.00	2021 Q4 Marketing Plan	Sales and Marketing	135.00	2021-08-10	2021-09-15
25	1500	10	55.00	2021 Q4 Marketing Plan	Sales and Marketing	135.00	2021-08-10	2021-09-15
26	1500	11	55.00	2021 Q4 Marketing Plan	Sales and Marketing	135.00	2021-08-10	2021-09-15
27	1600	6	40.00	2021 Q4 Portfolio Analysis	Finance	140.00	2021-10-05	2021-11-15
28	1600	7	45.00	2021 Q4 Portfolio Analysis	Finance	140.00	2021-10-05	2021-11-15
29	1600	8	45.00	2021 Q4 Portfolio Analysis	Finance	140.00	2021-10-05	2021-11-15

6)

```
--Query 6: Display all employees who have work more than 50 hours on a project.
select e.EmployeeNumber, e.FirstName, e.LastName, a.ProjectID from EMPLOYEE e
join ASSIGNMENT a on e.EmployeeNumber = a.EmployeeNumber where a.HoursWorked > 50
order by a.EmployeeNumber ASC;
```

100 %

Results | Messages

	EmployeeNumber	FirstName	LastName	ProjectID
1	6	Ken	Evans	1100
2	6	Ken	Evans	1500
3	10	Ken	Numoto	1500
4	10	Ken	Numoto	1400
5	10	Ken	Numoto	1100
6	11	Linda	Granger	1100
7	11	Linda	Granger	1500
8	16	Mary	Smith	1400
9	16	Mary	Smith	1000
10	17	Tom	Jackson	1000
11	17	Tom	Jackson	1400

7)

```
--Query 7: Create a view that is a combination of the Employee, Assignment, and Project tables
drop view EmployeeProjectView --only for screenshot so there is no red underlines.
go
create view EmployeeProjectView as
select e.EmployeeNumber, e.FirstName, e.LastName, a.HoursWorked, p.ProjectName from EMPLOYEE e
join ASSIGNMENT a on a.EmployeeNumber = e.EmployeeNumber
join PROJECT p on p.ProjectID = a.ProjectID
go
SELECT * FROM EmployeeProjectView;
```

100 %

Results | Messages

	EmployeeNumber	FirstName	LastName	HoursWorked	ProjectName
1	1	Mary	Jacobs	30.00	2021 Q3 Production Plan
2	6	Ken	Evans	50.00	2021 Q3 Production Plan
3	10	Ken	Numoto	50.00	2021 Q3 Production Plan
4	16	Mary	Smith	75.00	2021 Q3 Production Plan
5	17	Tom	Jackson	75.00	2021 Q3 Production Plan
6	1	Mary	Jacobs	30.00	2021 Q3 Marketing Plan
7	6	Ken	Evans	75.00	2021 Q3 Marketing Plan
8	10	Ken	Numoto	55.00	2021 Q3 Marketing Plan
9	11	Linda	Granger	55.00	2021 Q3 Marketing Plan
10	3	Richard	Bandalone	20.00	2021 Q3 Portfolio Analysis
11	6	Ken	Evans	40.00	2021 Q3 Portfolio Analysis
12	7	Mary	Abernathy	45.00	2021 Q3 Portfolio Analysis
13	8	Tom	Caruthers	45.00	2021 Q3 Portfolio Analysis
14	3	Richard	Bandalone	25.00	2021 Q3 Tax Preparation
15	6	Ken	Evans	40.00	2021 Q3 Tax Preparation
16	8	Tom	Caruthers	50.00	2021 Q3 Tax Preparation
17	9	Heather	Jones	50.00	2021 Q3 Tax Preparation
18	1	Mary	Jacobs	30.00	2021 Q4 Production Plan
19	6	Ken	Evans	50.00	2021 Q4 Production Plan
20	10	Ken	Numoto	55.00	2021 Q4 Production Plan
21	16	Mary	Smith	75.00	2021 Q4 Production Plan
22	17	Tom	Jackson	75.00	2021 Q4 Production Plan
23	1	Mary	Jacobs	30.00	2021 Q4 Marketing Plan
24	6	Ken	Evans	75.00	2021 Q4 Marketing Plan
25	10	Ken	Numoto	55.00	2021 Q4 Marketing Plan
26	11	Linda	Granger	55.00	2021 Q4 Marketing Plan
27	6	Ken	Evans	40.00	2021 Q4 Portfolio Analysis
28	7	Mary	Abernathy	45.00	2021 Q4 Portfolio Analysis
29	8	Tom	Caruthers	45.00	2021 Q4 Portfolio Analysis

8)

```sql
--Query 8: Count total hours worked on all projects.
select concat(sum(MaxHours), ' hours') as TotalHoursOnAllProjects from PROJECT;
```

100 %

Results | Messages

	TotalHoursOnAllProjects
1	875.00 hours