

Derrick Robinson

CIS 535

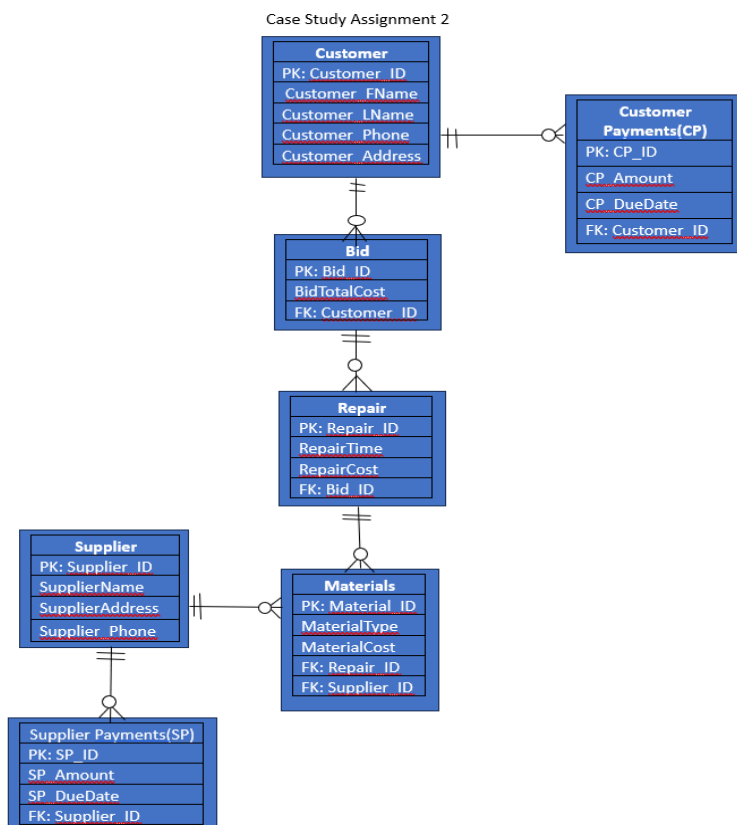
11/23/2025

Case Study Final Submission

Hello Bob,

I have created a final report of the database I have created for your business. This should allow things for your business to be more organized and easier to keep track of. There are 7 different tables that have been created for your business, with primary and foreign keys to help connect the tables when you need information from multiple tables. In this report I will provide visual representation of what data each table consists of and some examples of how the different tables can be connected to display different information. The first visual you will see is an ERD that shows how the tables relate to each other. The next Visual will be of the tables created in the database. Finally, the last visual will be examples how the tables can be joined to display different information.

ERD Visual:



Populated tables:

SQL Server Enterprise Manager interface showing the results of a query executed on the S21507763 database. The query is a SELECT statement from ProjectCustomer, ProjectBid, ProjectMaterials, ProjectRepair, ProjectSuppliers, CustomerPayments, and SupplierPayments.

Query:

```
select * from ProjectCustomer
select * from ProjectBid
select * from ProjectMaterials
select * from ProjectRepair
select * from ProjectSuppliers
select * from CustomerPayments
select * from SupplierPayments
```

Results:

Customer_ID	Customer_fname	Customer_lname	Customer_phone	Customer_address
1	Archie	Allen	413877942	214 Allen rd
2	Marion	Robinson	4132589334	817 Jackson st
3	Darnell	Jackson	4132559711	113 Fulton blvd
4	Logan	Johnson	4132549604	277 Arnold cir
5	Paul	Reed	4135769374	313 Round st
6	James	Baldwin	4187571225	717 ray dr

Bid_ID	Bid_TotalCost	Customer_ID	Bid_Date
1	1000.90	1	2025-10-13
2	102.98	4	2025-10-01
3	200.40	5	2025-01-11
4	420.60	2	2025-05-25
5	597.10	3	2025-11-30

Material_ID	Material_Type	Material_Cost	Repair_ID	Supplier_ID
1	Dry wall	55.89	2	5
2	Sheetrock	65.89	3	2
3	steel	80.90	1	4
4	Concrete	78.60	5	1
5	Glass	32.50	2	5

Repair_ID	Repair_Cost	Bid_ID	Repair_hours
1	600.40	1	30
2	400.50	1	60
3	102.98	2	45
4	200.40	3	20
5	420.60	4	20
6	397.10	5	80
7	200.00	5	35

Query executed successfully.

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5	420.60	4	20
6	397.10	5	80
7	200.00	5	35

Supplier_ID	Supplier_name	Supplier_phone	Supplier_address
1	Home Depot	4139997823	214 jefferson rd
2	Jaspers	4131717444	13 jackson st
3	Wallies	4137855412	217 Artest rd
4	The Departm...	4131988123	2 mile rd
5	Joes Hardware	4132222222	18 Allen rd
6	Andys	7172889534	7 Artest rd

CP_ID	CP_Amount	CP_DueDate	Customer_ID
1	254.55	2025-11-12	1
2	54.55	2025-01-02	5
3	183.97	2025-06-07	3
4	102.45	2025-08-01	2
5	28.36	2025-03-30	4
6	687.53	2026-11-16	6

SP_ID	SP_Amount	SP_DueDate	Supplier_ID
1	40.55	2025-12-09	3
2	20.55	2025-03-22	5
3	30.97	2025-05-03	3
4	16.45	2025-09-21	2
5	8.36	2025-07-30	4
6	1000.53	2026-11-16	6

Query executed successfully.

SQL Queries:

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the server hierarchy for 'SQL01\sqlstudent1'. The central pane shows a query window with five SQL queries. The right pane displays the results of these queries in a tabular format.

Query 1:

```
select Customer_fname, Customer_lname, Bid_Date
from ProjectCustomer join ProjectBid on ProjectCustomer.Customer_ID = ProjectBid.Customer_ID
where DATENAME(month, Bid_Date) = 'October'
```

	Customer_fname	Customer_lname	Bid_Date
1	Archie	Allen	2025-10-13
2	Logan	Johnson	2025-10-01

Query 2:

```
select Customer_fname, Customer_lname, CP_Amount
from ProjectCustomer join CustomerPayments on ProjectCustomer.Customer_ID = CustomerPayments.Customer_ID
where CP_Amount > 500
```

	Customer_fname	Customer_lname	CP_Amount
1	James	Baldwin	687.53

Query 3:

```
select supplier_name, SP_Amount
from ProjectSuppliers join SupplierPayments on ProjectSuppliers.Supplier_ID = SupplierPayments.Supplier_ID
where SP_Amount > 1000
```

	supplier_name	SP_Amount
1	Andys	1000.53

Query 4:

```
select Supplier_name, Material_Type
from ProjectSuppliers join ProjectMaterials on ProjectSuppliers.Supplier_ID = ProjectMaterials.Supplier_ID
where Supplier_name = 'Home Depot'
```

	Supplier_name	Material_Type
1	Home Depot	Concrete

Query 5:

```
select Material_Type, Repair_hours
from ProjectRepair join ProjectMaterials on ProjectRepair.Repair_ID = ProjectMaterials.Repair_ID
where Repair_hours > 40;
```

	Material_Type	Repair_hours
1	Dry wall	60
2	Sheetrock	45
3	Glass	60

The status bar at the bottom indicates "Query executed successfully."