

Derrick Robinson

CIS 535

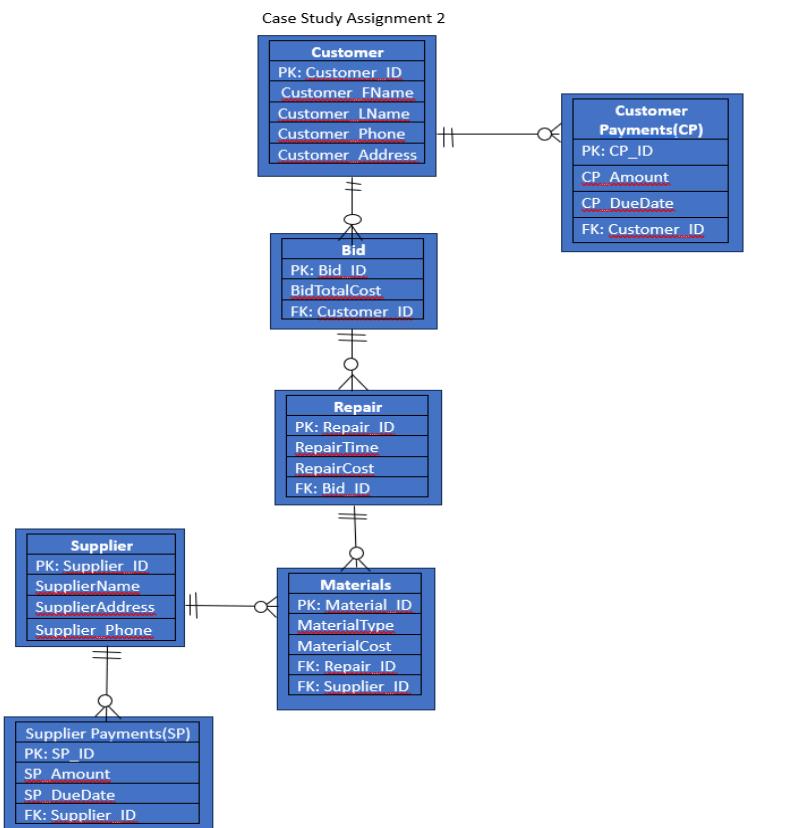
11/23/2025

### 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:

S21507763 SQL Server 14.0.3505.1

```

1  select * from ProjectCustomer
2  select * from ProjectBid
3  select * from ProjectMaterials
4  select * from ProjectRepair
5  select * from ProjectSuppliers
6  select * from CustomerPayments
7  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	Damell	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.

S21507763 SQL Server 14.0.3505.1

```

1  select * from ProjectCustomer
2  select * from ProjectBid
3  select * from ProjectMaterials
4  select * from ProjectRepair
5  select * from ProjectSuppliers

```

Results

Customer_ID	Customer_fname	Customer_lname	Customer_phone	Customer_address
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

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 Department	4131988123	2 mile rd
5	Joes Hardware	4132222222	18 Allen rd
6	Andys	712889534	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 SSMS interface with five queries executed against the 'S21507763' database. The queries are as follows:

```
1  select Customer_fname, Customer_lname, Bid_Date
2  from ProjectCustomer join ProjectBid on ProjectCustomer.Customer_ID = ProjectBid.Customer_ID
3  where DATENAME(month, Bid_Date) = 'October'
4
5  select Customer_fname, Customer_lname, CP_Amount
6  from ProjectCustomer join CustomerPayments on ProjectCustomer.Customer_ID = CustomerPayments.Customer_ID
7  where CP_Amount > 500
8
9  select supplier_name, SP_Amount
10 from ProjectSuppliers join SupplierPayments on ProjectSuppliers.Supplier_ID = SupplierPayments.Supplier_ID
11 where SP_Amount > 1000
12
13 select Supplier_name, Material_Type
14 from ProjectSuppliers join ProjectMaterials on ProjectSuppliers.Supplier_ID = ProjectMaterials.Supplier_ID
15 where Supplier_name = 'Home Depot'
16
17 select Material_Type, Repair_hours
18 from ProjectRepair join ProjectMaterials on ProjectRepair.Repair_ID = ProjectMaterials.Repair_ID
19 where Repair_hours > 40;
20
```

The results pane displays five tables:

- Customer fname, Customer lname, Bid Date:

Customer_fname	Customer_lname	Bid_Date
Archie	Allen	2025-10-13
Logan	Johnson	2025-10-01
- Customer fname, Customer lname, CP Amount:

Customer_fname	Customer_lname	CP_Amount
James	Baldwin	687.53
- supplier name, SP Amount:

supplier_name	SP_Amount
Andys	1000.53
- Supplier\_name, Material\_Type:

Supplier_name	Material_Type
Home Depot	Concrete
- Material\_Type, Repair\_hours:

Material_Type	Repair_hours
Dry wall	60
Sheetrock	45
Glass	60

A message at the bottom indicates "Query executed successfully."