BI Onboarding Task 1

```sql
/*-----------------------------------------------------------------------------
        Task 1.a Display a list of all property names and their property id's for Owner Id: 1426
*/
SELECT p.[Name] AS PropertyName
        , p.Id AS PropertyID
        FROM OwnerProperty AS op
                INNER JOIN Property AS p ON op.PropertyId=p.Id
        WHERE op.OwnerId=1426;
```
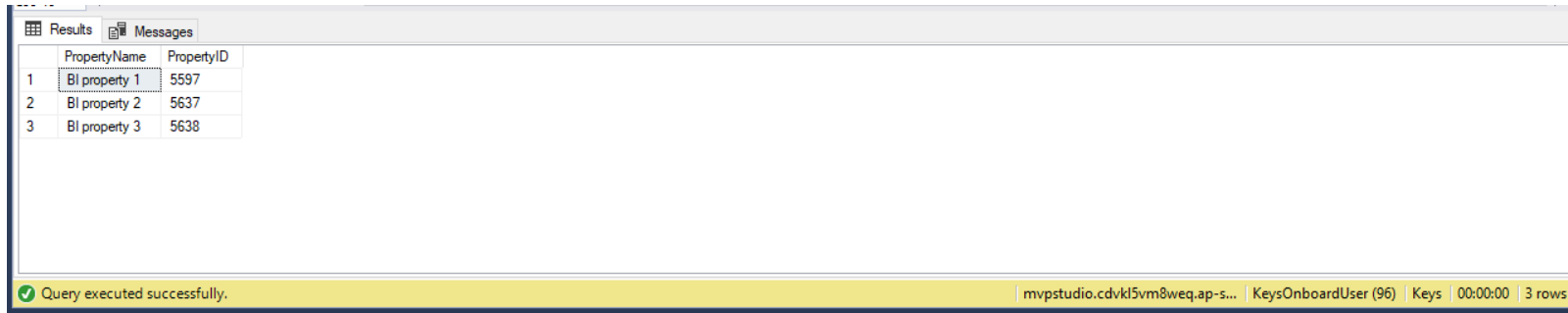

	PropertyName	PropertyID
1	BI property 1	5597
2	BI property 2	5637
3	BI property 3	5638

Query executed successfully. mvpstudio.cdvkl5vm8weq.ap-s... KeysOnboardUser (96) Keys 00:00:00 3 rows

```sql
/*-----------------------------------------------------------------------------
        Task 1.b Display the current home value for each property in question a)
*/
SELECT p.[Name] AS PropertyName
        , p.Id AS PropertyID
        , phv.Value AS CurrentHomeValue
                FROM OwnerProperty AS op
                INNER JOIN Property AS p ON op.PropertyId=p.Id
                INNER JOIN PropertyHomeValue AS phv   ON p.Id=phv.PropertyId
        WHERE op.OwnerId=1426 AND phv.IsActive=1
        ORDER BY p.[Name];


--OR

SELECT p.[Name] AS PropertyName
        , p.Id AS PropertyID
        , pf.CurrentHomeValue
        FROM Property AS p
                INNER JOIN PropertyFinance AS pf ON pf.PropertyId=p.Id
                INNER JOIN OwnerProperty AS op ON p.Id=op.PropertyId
        WHERE op.OwnerId=1426
        ORDER BY p.[Name];
```

	PropertyName	PropertyID	CurrentHomeValue
1	BI property 1	5597	45.00
2	BI property 2	5637	4500000.00
3	BI property 3	5638	3000000.00

✅ Query executed successfully.   mvpstudio.cdvkl5vm8weq.ap-s...   KeysOnboardUser (92)   Keys   00:00:00   3 rows

```sql
/*-----------------------------------------------------------------------------
    Task 1.c For each property in question a), return the following:
    i)  Using rental payment amount, rental payment frequency, tenant start date and tenant end date to write a query that returns
the sum of all payments from start date to end date.
*/
SELECT p.[Name] AS PropertyName
    , p.Id AS PropertyID
    , CASE
            WHEN trt.[Name] ='Weekly' THEN (DATEDIFF(wk,tp.StartDate, tp.EndDate)*prp.Amount)
            WHEN trt.[Name] ='Fortnightly' THEN ((DATEDIFF(wk,tp.StartDate, tp.EndDate)/2)*prp.Amount)
            ELSE (DATEDIFF(m,tp.StartDate, tp.EndDate)*prp.Amount)
        END AS SumOfPayments
    , trt.[Name] AS RentalPaymentFrequency
    , prp.Amount AS RentalPaymentAmount
    , tp.StartDate AS TenantStartDate
    , tp.EndDate AS TenantEndDate
    FROM Property AS p
            INNER JOIN OwnerProperty AS op ON p.Id=op.PropertyId
            INNER JOIN PropertyRentalPayment AS prp ON p.Id=prp.PropertyId
            INNER JOIN TargetRentType AS trt ON prp.FrequencyType=trt.Id
            INNER JOIN TenantProperty AS tp ON p.Id=tp.PropertyId
    WHERE op.OwnerId=1426;;
```

	PropertyName	PropertyID	SumOfPayments	RentalPaymentFrequency	RentalPaymentAmount	TenantStartDate	TenantEndDate
1	BI property 1	5597	15600.00	Weekly	300.00	2018-01-01 00:00:00.000	2018-12-31 00:00:00.000
2	BI property 2	5637	10400.00	Fortnightly	400.00	2018-01-01 00:00:00.000	2018-12-31 00:00:00.000
3	BI property 3	5638	2340.00	Weekly	45.00	2018-01-01 13:28:00.000	2018-12-31 13:28:00.000
4	BI property 3	5638	33.00	Monthly	3.00	2018-01-01 13:28:00.000	2018-12-31 13:28:00.000

✅ Query executed successfully.   mvpstudio.cdvkl5vm8weq.ap-s...   KeysOnboardUser (98)   Keys   00:00:00   4 rows

```sql
/*----------------------------------------------------------------------------
    Task 1.c For each property in question a), return the following:
    ii) Display the yield.
*/


SELECT p.[Name] AS PropertyName
    , p.Id AS PropertyID
    , phv.[Value] AS HomeValue
    , (
        (
            (CASE
                    WHEN trt.[Name] ='Weekly' THEN (DATEDIFF(wk,tp.StartDate, tp.EndDate)*prp.Amount)
                    WHEN trt.[Name] ='Fortnightly' THEN ((DATEDIFF(wk,tp.StartDate, tp.EndDate)/2)*prp.Amount)
                    ELSE (DATEDIFF(m,tp.StartDate, tp.EndDate)*prp.Amount)
            END
            )-ISNULL(SUM(pe.Amount),0)
        )/phv.[Value]
    )*100 AS Yield
    , trt.[Name] AS RentalPaymentFrequency
    , prp.Amount AS RentalPaymentAmount
    , tp.StartDate AS TenantStartDate
    , tp.EndDate AS TenantEndDate
    FROM Property AS p
        INNER JOIN OwnerProperty AS op ON p.Id=op.PropertyId
        INNER JOIN PropertyRentalPayment AS prp ON p.Id=prp.PropertyId
        INNER JOIN TargetRentType AS trt ON prp.FrequencyType=trt.Id
        INNER JOIN TenantProperty AS tp ON p.Id=tp.PropertyId
        INNER JOIN PropertyHomeValue AS phv  ON p.Id=phv.PropertyId
        LEFT JOIN PropertyExpense AS pe ON p.Id=pe.PropertyId
    WHERE op.OwnerId=1426 AND phv.IsActive=1
    GROUP BY p.[Name],p.Id,phv.[Value],trt.[Name],prp.Amount,tp.StartDate,tp.EndDate;
```

	PropertyName	PropertyID	HomeValue	Yield	RentalPaymentFrequency	RentalPaymentAmount	TenantStartDate	TenantEndDate
1	BI property 1	5597	45.00	34000.000000	Weekly	300.00	2018-01-01 00:00:00.000	2018-12-31 00:00:00.000
2	BI property 2	5637	4500000.00	0.231100	Fortnightly		8-01-01 00:00:00.000	2018-12-31 00:00:00.000
3	BI property 3	5638	3000000.00	0.000900	Monthly	3.00	2018-01-01 13:28:00.000	2018-12-31 13:28:00.000
4	BI property 3	5638	3000000.00	0.077800	Weekly	45.00	2018-01-01 13:28:00.000	2018-12-31 13:28:00.000

Click to select the whole column

Query executed successfully.

mvpstudio.cdvkI5vm8weq.ap-s... | KeysOnboardUser (98) | Keys | 00:00:00 | 4 rows

```
/*----------------------------------------------------------------------------------
      Task 1.d.   Display all the jobs available in the marketplace (jobs that owners have advertised for service suppliers).
*/

SELECT j.Id AS JobID
      , j.PropertyId
      , j.OwnerId
      , j.JobDescription
      , Count(jm.Id) AS NoOfJobMedia
      FROM Job AS j
            INNER JOIN JobMedia AS jm ON j.Id=jm.JobId
      WHERE jm.IsActive=1
      GROUP BY j.Id, j.PropertyId, j.OwnerId, j.JobDescription
```

Results | Messages

	JobID	PropertyId	OwnerId	JobDescription	NoOfJobMedia
1	9	3102	348	job 2	1
2	38	3854	441	cleaning gutters	1
3	347	60	NULL	lawn works vfbdfhcgvubhdbvhdvhjbhdf bhjfbhwbehfb...	4
4	457	19	NULL	test test	1
5	691	64	NULL	mickey	1
6	692	64	NULL	mickey 2	1
7	698	64	NULL	mickey666	5

✅ Query executed successfully.   mvpstudio.cdvkl5vm8weq.ap-s... | KeysOnboardUser (96) | Keys | 00:00:00 | 133 rows

```
--OR

SELECT DISTINCT j.Id AS JobID
      , j.PropertyId
      , j.OwnerId
      , j.JobDescription
      , jm.IsActive
      FROM Job AS j
            INNER JOIN JobMedia AS jm ON j.Id=jm.JobId
      WHERE jm.IsActive=1
```

	JobID	PropertyId	OwnerId	JobDescription	IsActive
1	9	3102	348	job 2	1
2	38	3854	441	cleaning gutters	1
3	347	60	NULL	lawn works vfbdfhcgvubhdbvhdvhjbhdf bhjfbhwbehfb...	1
4	457	19	NULL	test test	1
5	691	64	NULL	mickey	1
6	692	64	NULL	mickey 2	1
7	698	64	NULL	mickey666	1
8	700	64	NULL	mickeytest	1
9	713	28	NULL	1TEST JOB	1

✅ Query executed successfully. mvpstudio.cdvkl5vm8weq.ap-s... | KeysOnboardUser (96) | Keys | 00:00:00 | 133 rows

```
*-----------------------------------------------------------------------------

    Task 1.e.   Display all property names, current tenants first and last names and rental payments per week/ fortnight/month for
the properties in question a).
*/

SELECT p.[Name] AS PropertyName
    , Person.FirstName AS TenantFirstName
    , Person.LastName AS TenantLastName
    , prp.Amount AS RentalPaymentAmount
    , trt.[Name] AS RentalPaymentFrequency
    FROM OwnerProperty AS op
        INNER JOIN Property AS p ON op.PropertyId=p.Id
        INNER JOIN TenantProperty AS tp ON p.Id=tp.PropertyId
        INNER JOIN Tenant AS t ON tp.TenantId=t.Id
        INNER JOIN Person ON t.Id=Person.Id
        INNER JOIN PropertyRentalPayment AS prp ON p.Id=prp.PropertyId
        INNER JOIN TargetRentType AS trt ON prp.FrequencyType=trt.Id
    WHERE op.OwnerId=1426;
```

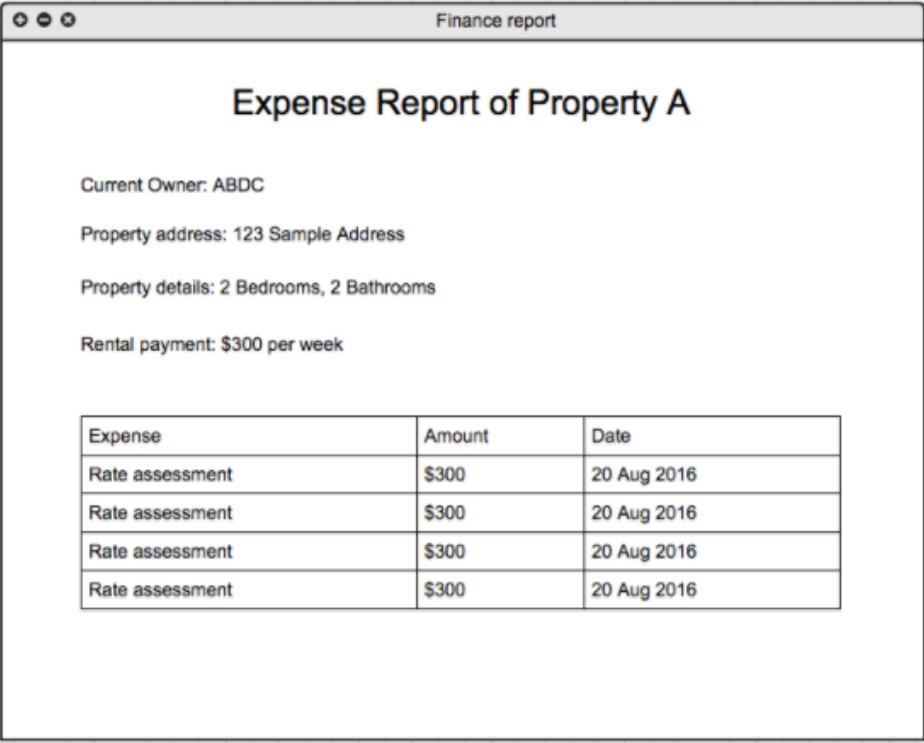|	PropertyName	TenantFirstName	TenantLastName	RentalPaymentAmount	RentalPaymentFrequency
1	BI property 1	Nick	Johnson	300.00	Weekly
2	BI property 2	BI	Tenant	400.00	Fortnightly
3	BI property 3	BI	Tenant	45.00	Weekly
4	BI property 3	BI	Tenant	3.00	Monthly

✅ Query executed successfully. mvpstudio.cdvkl5vm8weq.ap-s... | KeysOnboardUser (98) | Keys | 00:00:00 | 4 rows

BI Onboarding Task 2

Use Report Builder or Visual Studio (SSRS) to develop the following report:

○ ● ○	Finance report

Expense Report of Property A

Current Owner: ABDC

Property address: 123 Sample Address

Property details: 2 Bedrooms, 2 Bathrooms

Rental payment: $300 per week

Expense	Amount	Date
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016

Solution:

```
Data Set Query:
Select p.Id,p.[Name] AS PropertyName
     , RTRIM(LTRIM(
                        CONCAT(
                             COALESCE(Person.FirstName + ' ', '')
                           , COALESCE(Person.MiddleName + ' ', '')
                           , COALESCE(Person.Lastname, '')
```

```sql
                )
            )) AS OwnerName
, RTRIM(LTRIM(
                    CONCAT(
                        COALESCE(a.Number + ' ', '')
                        , COALESCE(a.Street + ' ', '')
                        , COALESCE(a.Suburb + ' ', '')
                        , COALESCE(a.PostCode + ' ', '')
                        , COALESCE(a.Region + ' ', '')
                        , COALESCE(Country.[Name], '')
                    )
            )) AS PropertyAddress
, CONCAT(p.Bathroom,' Bathroom, ',p.Bedroom,' Bedroom, ',p.ParkingSpace,' ParkingSpace') AS PropertyDetails
, prp.Amount as RentalAmount
, CASE
        WHEN trt.[Name] ='Weekly' THEN 'Week'
        WHEN trt.[Name] ='Fortnightly' THEN 'Fortnight'
        ELSE 'Month'
    END AS RentalPaymentFrequency
, e.[Description], e.Amount, e.[Date]
FROM Property AS p
        INNER JOIN OwnerProperty AS op ON p.Id=op.PropertyId
        INNER JOIN Owners AS o ON op.OwnerId=o.Id
        INNER JOIN Person ON o.Id=Person.Id
        INNER JOIN [Address] AS a ON p.AddressId=a.AddressId
        INNER JOIN Country ON a.CountryId=Country.Id
        INNER JOIN PropertyRentalPayment AS prp ON p.Id=prp.PropertyId
        INNER JOIN TargetRentType as trt ON prp.FrequencyType=trt.Id
        LEFT JOIN PropertyExpense AS e ON p.Id=e.PropertyId
WHERE p.[Name]=@Property
```

Report Preview:

SQL Server Reporting Services ≡

★ Favorites   ▢ Browse

Home > PropertyExpenseRptProject_OnBoardingTk2 > PropertyExpenseReport

Property Name | Property A | View Report

|◁ ◁ 1 of 1 ▷ ▷| ↻ ⬅ 100% ▼ 💾 ⌄ 🖨

# Expense Report of Property A

Current Owner: ABDC Owner

Property Address: 231 Great South Road Drury 2113 Auckland New Zealand

Property Details: 2 Bathroom, 2 Bedroom, 2 ParkingSpace

Rental Payment: $300 per Week

Expense	Amount	Date
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016

Design Preview

Property Name Property A   View Report

|◀ ◀ 1   of 1 ▶ ▶| ← ⊗ ⟳ | 🖨 ▤ 🕮 💾▾ | 100% ▾   Find | Next

Expense Report of Property A

Current Owner: ABDC Owner

Property Address: 231 Great South Road Drury 2113 Auckland New Zealand

Property Details: 2 Bathroom, 2 Bedroom, 2 ParkingSpace

Rental Payment: $300 per Week

Expense	Amount	Date
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016
Rate assessment	$300	20 Aug 2016

Design Preview:

PropertyExpenseReport.rdl [Design] ⊣ ✕

Design Preview

Property Name [   ]

Expense Report of [PropertyName]

Current Owner: [OwnerName]

Property Address: [PropertyAddress]

Property Details: [PropertyDetails]

Rental Payment: [RentalAmount] per [RentalPaymentFrequency]

Expense	Amount	Date
[Description]	[Amount]	[Date]

Row Groups   Column Groups

≡ (Details)   ▼