Advanced Database Management Independent Research

Asset Tracker Database User Tests

User Test Queries and User Stories

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1. The Senior IT Asset Manager would like to know how long an asset has been assigned to an employee and where are they are located. In addition, the manager would like to perform quick daily reports on this information. (This query should produce 41 rows in the results panel)

```
Create Proc [dbo].[AssignedAssetAging]
AS
Begin
Select l.LocationName ,ad.ModelName,
        concat(e.FirstName, ' ', e.LastName) AS EmployeeName,
        Datediff(day, DateAssigned, GetDate()) AS Aging
From AssetAssignment aa
Join Employee e
On e.UserID = aa.UserID
Join AssetDetails ad
On ad.AssetID = aa.AssetID
Join Location l
On l.LocationID = aa.LocationID
Order by l.LocationName, ad.ModelName
END
```

LocationName	ModelName	EmployeeName	Aging
Idlewild Bldg	Acer Packard	Libby Mcfarland	11
Idlewild Bldg	Asus Vivo	Jessamine Mccormick	44
Idlewild Bldg	Asus Vivo	Hanna Watson	44
Idlewild Bldg	HP Pavilion	Lois Hammond	44
Idlewild Bldg	HP Pavilion	Barclay Blanchard	44
Idlewild Bldg	HP Pavilion	Orlando Daugherty	44
Idlewild Bldg	HP Pavilion	Blaze Pennington	44
Idlewild Bldg	HP Pavilion	Abdul Lane	44
Idlewild Bldg	HP Pavilion	Catherine Hutchinson	44
Idlewild Bldg	HP Pavilion	Tara Summers	44
Innovation Center	Acer Packard	Oliver Warren	44
Innovation Center	Acer Packard	Wynne Bond	44
Innovation Center	Acer Packard	Kerry Durham	44
Innovation Center	Acer Packard	Jena Huff	44
Innovation Center	Acer Packard	Yoshi Beach	44
Innovation Center	Asus Vivo	Nancy Foley	44
Innovation Center	Dell Inspiron	Quamar Mason	44
Innovation Center	Dell Inspiron	Cooper Pittman	44

2. The Senior IT Asset Manager would like to know the number of days left in all the active contracts and the number of assets that reside in each contract. In addition, the manager would like to run daily reports to ensure that all the contracts are active or soon to be inactive.

```sql
CREATE Proc [dbo].[DaysToContractMaturity]
AS
Begin
Select c.ContractNo,c.MaturityDate,
       CASE
         WHEN c.MaturityDate = GETDATE() OR c.MaturityDate < GETDATE() Then 0
         ELSE abs(DATEDIFF(Day, c.MaturityDate, GETDATE()))
         END AS DaysLeft,
       Count(a.AssetID) AS NumberofAssets
From Contract c
Join AssetDetails a
On c.ContractNo = a.ContractNo
Group by c.ContractNo, c.MaturityDate
Order by c.MaturityDate
```

```
ContractNo  MaturityDate DaysLeft    NumberofAssets
----------- ------------ ----------- --------------
50089522    2019-10-16   0           12
32968633    2021-02-16   487         12
12319395    2021-10-25   738         10
43976104    2021-11-11   755         10
15404721    2021-11-12   756         10
5813195     2021-11-18   762         10
23247227    2022-04-09   904         10
29181920    2022-07-24   1010        10
22378706    2023-05-04   1294        10
23974916    2023-09-20   1433        10
```

3. The Senior IT Asset Manager wants to ensure all the company employees are given and assigned an asset. In addition, the manager would like to run daily weekly report by the end of the week to ensure asset is still assigned. (The query should produce 41 rows in the results pane).

```
Create Proc [dbo].[EmployeeAssetAssignment]
AS
Begin
Select ad.AssetID, ad.Description, ae.Status, concat(e.FirstName, ' ', e.LastName) AS EmployeeName
From AssetDetails ad
Join AssetAssignment aa
On ad.AssetID = aa.AssetID
Join AssetStatus ae
On ad.AssetID = ae.AssetID
Join Employee e
On e.UserID = aa.UserID
END
```

```
AssetID      Description      Status           EmployeeName
-----------  ---------------  ---------------  -------------------
100001       Laptop           Assigned         Walter Jimenez
100002       Laptop           Assigned         Josiah Alford
100003       Laptop           Assigned         Tate Mack
100004       Laptop           Assigned         Lani Russell
100005       Laptop           Assigned         Baker Sims
100006       Laptop           Assigned         Mufutau Barker
100007       Laptop           Assigned         Elijah Koch
100008       Laptop           Assigned         Hayfa Goff
100009       Laptop           Assigned         Levi Ruiz
100010       Laptop           Assigned         Nehru Luna
100021       Desktop          Assigned         Boris Mendoza
100022       Desktop          Assigned         Hoyt Bradford
100023       Desktop          Assigned         Amir Valencia
100024       Desktop          Assigned         Damian Cannon
100025       Desktop          Assigned         Casey Shannon
100026       Laptop           Assigned         Samson Lee
100027       Laptop           Assigned         Kato Gamble
100028       Laptop           Assigned         Martena Dunn
100029       Laptop           Assigned         Irma Crosby
100030       Laptop           Assigned         Hadassah Evans
100031       Laptop           Assigned         Libby Mcfarland
100053       Laptop           Assigned         Jessamine Mccormick
100054       Laptop           Assigned         Hanna Watson
```