

Parth Kapoor ISOM 821 assignment 8

--q87

```
select [PAT_ID],[BOOK_NUM],DATEDIFF(day,[CHECK_out_DATE],[CHECK_IN_DATE]) as "days kept"  
from [dbo].[CH07_Fact_CHECKOUT];
```



Results



Messages

	PAT_ID	BOOK_NUM	days kept
1	1165	5235	9
2	1209	5238	5
3	1160	5240	9
4	1160	5237	3
5	1202	5236	8
6	1203	5235	8
7	1174	5244	3
8	1181	5248	1
9	1170	5242	4
10	1161	5235	0
11	1181	5236	6
12	1181	5249	4
13	1160	5240	9
14	1204	5236	8
15	1204	5237	2
16	1183	5236	1
17	1184	5240	8
18	1170	5236	0

--q94

```
select [PAT_ID],CONCAT([PAT_FNAME],',',[PAT_LNAME]),[PAT_TYPE]  
from [dbo].[CH07_Fact_PATRON]  
order by [PAT_TYPE],[PAT_LNAME],[PAT_FNAME];
```

100 %



Results



Messages

	PAT_ID	(No column name)	PAT_TYPE
1	1165	CedricBaldwin	Faculty
2	1170	CoryBarry	faculty
3	1160	robertcarter	Faculty
4	1183	HelenaHughes	Faculty
5	1161	KelseyKoch	Faculty
6	1167	AlanMartin	FACULTY
7	1166	VeraAlvarado	Student
8	1202	HollyAnthony	Student
9	1180	NadineBlair	STUDENT
10	1238	ErikaBowen	Student
11	1229	GeraldBurke	Student
12	1208	OllieCantrell	Student
13	1210	KeithCooley	STUdent
14	1227	AliciaDickson	Student
15	1215	MaureenDowns	Student
16	1204	ThomasDuran	Student
17	1224	JewelEngland	Student
18	1225	WilfredFuller	Student

--Q98

```

select b.[BOOK_NUM],b.[BOOK_TITLE],count(c.[CHECK_OUT_DATE]) as "times checked out"
from [dbo].[CH07_Fact_BOOK] b left join [dbo].[CH07_Fact_CHECKOUT] c
on b.BOOK_NUM=c.BOOK_NUM
group by b.BOOK_NUM,b.BOOK_TITLE
order by "times checked out" desc ;

```

--Q99

100 %

Results

Messages

	BOOK_NUM	BOOK_TITLE	times checked out
1	5236	Database in the Cloud	12
2	5235	Beginner's Guide to JAVA	9
3	5240	iOS Programming	7
4	5238	Conceptual Programming	6
5	5237	Mastering the database environment	5
6	5242	C# in Middleware Deployment	4
7	5249	Starlight Applications	4
8	5244	Cloud-based Mobile Applications	4
9	5246	Capture the Cloud	4
10	5252	Beyond the Database Veil	4
11	5254	Coding Style for Maintenance	4
12	5248	What You Always Wanted to Know About Database, B...	3
13	5243	DATABASES in Theory	2
14	5241	JAVA First Steps	0
15	5239	J++ in Mobile Apps	0
16	5250	Reengineering the Middle Tier	0
17	5251	Thoughts on Revitalizing Ruby	0

--Q99

```
select b.[BOOK_NUM],b.[BOOK_TITLE],count(c.[CHECK_OUT_DATE]) as "times checked out"
from [dbo].[CH07_Fact_BOOK] b left join [dbo].[CH07_Fact_CHECKOUT] c
on b.BOOK_NUM=c.BOOK_NUM
group by b.BOOK_NUM,b.BOOK_TITLE
having count(c.CHECK_OUT_DATE)>5
order by "times checked out" desc;
```

Results

Messages

	BOOK_NUM	BOOK_TITLE	times checked out
1	5236	Database in the Cloud	12
2	5235	Beginner's Guide to JAVA	9
3	5240	iOS Programming	7
4	5238	Conceptual Programming	6

--Q103

```
select (avg(DATEDIFF(day,c.[CHECK_OUT_DATE],c.[CHECK_IN_DATE]))) as "average days kept"
from [dbo].[CH07_Fact_CHECKOUT] c;
```

Results		Messages
	average days kept	
1	4	

```
--Q104
select [PAT_ID],round(avg(DATEDIFF(day,c.[CHECK_OUT_DATE],c.[CHECK_IN_DATE])),2) as "average days kept"
from [dbo].[CH07_Fact_CHECKOUT] c
group by [PAT_ID]
having count(check_num)>2
order by round(avg(datediff(day,c.CHECK_OUT_DATE,c.CHECK_IN_DATE)),2) desc;
```

100 %

Results		Messages
	PAT_ID	average days kept
1	1160	7
2	1185	6
3	1207	5
4	1209	5
5	1165	5
6	1172	4
7	1183	4
8	1181	3
9	1171	3
10	1161	3
11	1210	2
12	1229	2

--Q105

```
select [BOOK_NUM],[BOOK_TITLE],[BOOK_COST]
from [dbo].[CH07_Fact_BOOK]
where [BOOK_COST] = (select min([BOOK_COST]) from [dbo].[CH07_Fact_BOOK])
order by [BOOK_NUM];
```

--Q107

100 %

Results Messages

	BOOK_NUM	BOOK_TITLE	BOOK_COST
1	5239	J++ in Mobile Apps	49.95
2	5241	JAVA First Steps	49.95
3	5248	What You Always Wanted to Know About Database, B...	49.95
4	5254	Coding Style for Maintenance	49.95

--Q107

```
select [BOOK_NUM],[BOOK_TITLE],b.[BOOK_SUBJECT],round(avg_cost,2) as "avgcost", round ([BOOK_COST]-avg_cost,2)as difference
from [dbo].[CH07_Fact_BOOK] b inner join (select [BOOK_SUBJECT],avg([BOOK_COST]) as Avg_cost from [dbo].[CH07_Fact_BOOK] group by [BOOK_SUBJECT]) avg_calcu
on avg_calcu.BOOK_SUBJECT=b.BOOK_SUBJECT
order by [BOOK_NUM],[BOOK_TITLE];
```

Results Messages

	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	avgcost	difference
1	5235	Beginner's Guide to JAVA	Programming	66.620000	-6.670000
2	5236	Database in the Cloud	Cloud	72.450000	7.500000
3	5237	Mastering the database environment	Database	84.950000	5.000000
4	5238	Conceptual Programming	Programming	66.620000	-6.670000
5	5239	J++ in Mobile Apps	Programming	66.620000	-16.670000
6	5240	iOS Programming	Programming	66.620000	13.330000
7	5241	JAVA First Steps	Programming	66.620000	-16.670000
8	5242	C# in Middleware Deployment	Middleware	89.950000	-30.000000
9	5243	DATABASES in Theory	Database	84.950000	45.000000
10	5244	Cloud-based Mobile Applications	Cloud	72.450000	-2.500000
11	5245	The Golden Road to Platform independence	Middleware	89.950000	30.000000
12	5246	Capture the Cloud	Cloud	72.450000	-2.500000
13	5247	Shining Through the Cloud: Sun Programming	Programming	66.620000	43.330000
14	5248	What You Always Wanted to Know About Database, B...	Database	84.950000	-35.000000
15	5249	Starlight Applications	Cloud	72.450000	-2.500000
16	5250	Reengineering the Middle Tier	Middleware	89.950000	0.000000
17	5251	Thoughts on Revitalizing Ruby	Programming	66.620000	-6.670000
18	5252	Beyond the Database Veil	Database	84.950000	-15.000000

Query executed successfully.

Ln 46

Col 34

Ch 34

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