

STORED PROCEDURE EXERCISES

Q.1 /*We have a database containing sales. Write a stored procedure that takes start and end dates, along with multiple selected city names, and retrieves the sales accordingly. This stored procedure should return two datasets: the first showing the entered filters, and the second displaying the query results based on these filters.
*/

```
SELECT * FROM SALES
```

ID	INVOICENO	DATE_	CUSTOMERID	NAMESURNAME	CUSTOMERGEN	CUSTOMERBIRTHDATE	ITEMCODE	ITEMNAME	UNITPRICE	BRAND	CAT
1	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	001182	LIMON KOLONYA 200ML PVC	30	MARKA-72	KOZ
2	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000458	LEKE ÇIKARICI 2 LT	106	MARKA-68	DET
3	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000009	ÇUBUK KRAKER 36 GR	2	MARKA-210	GID
4	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000913	AYAKKABI BOYASI 200 GR. A KAHVE	23.2	MARKA-192	DET
5	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000031	DOMATES SALÇASI 170 GR	12	MARKA-200	GID
6	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000770	SAPLI PASPAS	58	MARKA-22	DET
7	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	001161	PUDING 2 LI 4 LU ÇIKO-SÜTLÜ	30.8	MARKA-59	SÜT
8	10092022-000001	2022-09-10 08:53:55.190	2248	Tuba Dağdaş	K	1956-07-28	000874	AHŞAP TEMİZLEYİCİSİ 5 IN 1 2SI %60 IND.	87.2	MARKA-172	DET
9	02122022-000002	2022-12-02 08:52:27.247	4218	Mert Inceoglu	E	1985-03-30	000009	ÇUBUK KRAKER 36 GR	2	MARKA-210	GID
10	02122022-000002	2022-12-02 08:52:27.247	4218	Mert Inceoglu	E	1985-03-30	000467	DIŞ FIRÇASI DOUBLE ACTION	25.2	MARKA-186	KOZ
11	02122022-000002	2022-12-02 08:52:27.247	4218	Mert Inceoglu	E	1985-03-30	001329	DIŞ İPİ	78	MARKA-51	KOZ
12	02122022-000002	2022-12-02 08:52:27.247	4218	Mert Inceoglu	E	1985-03-30	001217	TOZ İÇECEK 170 GR KUŞBURNU	20	MARKA-99	İÇE
13	02122022-000002	2022-12-02 08:52:27.247	4218	Mert Inceoglu	E	1985-03-30	000308	SUCUK KANGAL 250GR	103.2	MARKA-167	ET T

This is my stored procedure.

```
CREATE PROC GETCATEGORYSALES
@CITIES AS VARCHAR(100) = 'İSTANBUL, ANKARA, İZMİR', --default values
@BEGDATE AS DATE = '20220401', --default values
@ENDDATE AS DATE= '20220601' --default values
AS
DECLARE @PARAMETERS AS VARCHAR(100)
SET @PARAMETERS = '@CITIES=' +@CITIES
SET @PARAMETERS = @PARAMETERS+ ' @BEGDATE=' + CONVERT(varchar,@BEGDATE,104)
SET @PARAMETERS = @PARAMETERS+ ' @ENDDATE=' + CONVERT(varchar,@ENDDATE,104)
SELECT @PARAMETERS AS PARAMETERS

SELECT CATEGORY1 CATEGORY, SUM(TOTALPRICE) TOTALSALES FROM SALES
WHERE CITY IN (SELECT VALUE FROM string_split(@CITIES,',')) AND
DATE_ BETWEEN @BEGDATE AND @ENDDATE
GROUP BY CATEGORY1
ORDER BY 1
```

I execute this way and set the variables that I created in the stored procedure.

```
EXEC GETCATEGORYSALES @CITIES = 'ADANA,BURSA,HATAY',
@BEGDATE = '20220410', @ENDDATE = '20220530'
```

And here is my two datasets.

PARAMETERS	
1	@CITIES=ADANA,BURSA,HATAY @BEGDATE=10.04.2022 @ENDDATE=30.05.2022

	CATEGORY	TOTALSALES
1	BEBEK	64102.53
2	DETERJAN TEMIZLIK	162012.58
3	ET TAVUK	85612.03
4	EV	70204.74
5	GIDA	159453.64
6	IÇECEK	45030.28
7	KOZMETIK	219980.46
8	SÜT KAHVALTILIK	114456.91

Q.2

/*We have a table where users are stored, and we need to write a stored procedure that will take the username, email address, password, and IP information for login processes. The procedure will also automatically record the login activities. */

select * from USERS

	ID	USERNAME_	PASSWORD_	NAMESURNAME	EMAIL	GENDER	BIRTHDATE	CREATEDDATE	TELNR1
1	1	N_SENGUN	DA9683178578423FA84326D01E12F3C6	Nuray Şengün	N_SENGUN@turkcellgy.com	K	1995-12-27	2021-10-18 08:59:34.000	(531) 1800480
2	2	S_KIRAC	FE53A927135040F08454FEEA56D84382	Sedef Kırac	S_KIRAC@turkcellgy.com	K	1994-06-13	2020-04-12 08:34:58.000	(530) 1641367
3	3	A_POCAN	60C1054CBD0F4BB6981214986BABF8D3	Amine Poçan	A_POCAN@turkcellgy.com	K	1974-08-03	2019-07-30 19:14:40.000	(534) 1233496
4	4	S_TUTUNCU	B7D7C19FD6334E5C9B227F4F585276CF	Savaş Tutuncü	S_TUTUNCU@turkcellgy.com	E	1979-03-12	2021-03-23 01:50:46.000	(536) 1547566
5	5	E_AKDEMİR	9C4283F2155A4FECB8E1E7220AC901B4	Esra Akdemir	E_AKDEMIR@turkcellgy.com	K	1955-12-25	2022-05-24 22:24:08.000	(533) 1168139
6	6	Z_ASIL	90A1D1DDA4AE4448927EDBFBED40CC32	Zahide Asil	Z_ASIL@turkcellgy.com	K	1974-11-29	2020-12-12 01:54:26.000	(532) 1828712
7	7	K_TELLI	4432BAB70DF8499C825A395D3E3FEE43	Kübra Telli	K_TELLI@turkcellgy.com	K	1977-09-04	2020-09-04 03:42:23.000	(532) 1573506
8	8	K_ATAKAN	DDDF69FA8FF84E29A15F32D76C7301CA	Kemal Atakan	K_ATAKAN@turkcellgy.com	E	1994-07-05	2020-05-20 08:39:48.000	(535) 2028135
9	9	F_DONMEZ	54C18E6B21C0474D880EB7F223942846	Feyza Dönmez	F_DONMEZ@turkcellgy.com	K	1972-09-20	2020-12-20 21:45:53.000	(535) 2102194
10	10	G_ECE	D7F3FFE3544F42ABB5E8CD562ACA3347	Gökhan Ece	G_ECE@turkcellgy.com	E	1969-11-12	2021-02-27 13:44:01.000	(536) 1517672
11	11	T_AKISIK	EFA396D560D8419BB4E2D047833C0FB3	Turgay Akışık	T_AKISIK@turkcellgy.com	E	1976-02-27	2019-08-04 23:01:26.000	(536) 2106833
12	12	N_AKCAL	2E95495BE19E4ED8824498EB675CBC81	Nisanur Akçal	N_AKCAL@turkcellgy.com	K	1967-03-31	2020-06-02 06:07:41.000	(531) 1200927
13	13	S_AYKURT	7DF9E893BCE5462DBF50953EA89CC23C	Selma Aykurt	S_AYKURT@turkcellgy.com	K	1984-06-14	2020-03-18 03:15:26.000	(532) 1134451
14	14	B_ALPMAN	E749FCC9CC8B43DB898A712134A8B0CC	Büyücan Alpmann	B_ALPMAN@turkcellgy.com	E	1970-06-29	2021-12-09 14:10:35.000	(537) 1826356
15	15	G_KASIKCI	CA50BC144485488E89ACCB6AA3E104D5	Gülüzar Kaşıkçı	G_KASIKCI@turkcellgy.com	K	1951-05-30	2022-01-03 00:58:26.000	(530) 1484742
16	16	B_AKKAYA	1E27221BF625419294525AC5242FDE26	Büşra Akkaya	B_AKKAYA@turkcellgy.com	K	1963-04-22	2021-08-24 11:12:39.000	(536) 1429394
17	17	M_KOCAYIT	10528D5E1D74081A222005E1A4F5D83	Mehmet Kocayit	M_KOCAYIT@turkcellgy.com	E	1973-12-17	2022-01-03 00:30:50.000	(530) 1829554

This is my stored procedure.

```

CREATE PROC SPLOG
@USERNAME AS VARCHAR(50)= '',
@EMAIL AS VARCHAR(100)= '',
@PASSWORD AS VARCHAR(100),
@IPADDRESS AS VARCHAR(20)

AS
DECLARE @LOGINTYPE AS INT
DECLARE @USERID AS INT
IF @USERNAME <> ''
BEGIN
    SELECT @USERID = ID FROM USERS WHERE USERNAME_ = @USERNAME AND PASSWORD_ =
@PASSWORD
    IF @USERID IS NOT NULL
    BEGIN

```

```

        SET @LOGINTYPE = 1
    END
    ELSE
    BEGIN
        SET @LOGINTYPE = 0
    END
    INSERT INTO USERLOGIN_LOG (USERID, USERNAME, LOGINTYPE, IPADDRESS, DATE_)
    VALUES (@USERID, @USERNAME, @LOGINTYPE, @IPADDRESS, GETDATE())
END

IF @EMAIL <> ''
BEGIN
    SELECT @USERID = ID FROM USERS WHERE EMAIL = @EMAIL AND PASSWORD_ = @PASSWORD
    IF @USERID IS NOT NULL
    BEGIN
        SET @LOGINTYPE = 1
    END
    ELSE
    BEGIN
        SET @LOGINTYPE = 0
    END
    INSERT INTO USERLOGIN_LOG (USERID, USERNAME, LOGINTYPE, IPADDRESS, DATE_)
    VALUES (@USERID, @EMAIL, @LOGINTYPE, @IPADDRESS, GETDATE())
END

SELECT @LOGINTYPE LOGINTYPE

```

I execute this way and set the variables that I created in the stored procedure.

```

EXEC SPLOG @USERNAME = 'A_POCAN',
@PASSWORD = 'B7D7C19FD6334E5C9B227F4F585276CF',
@IPADDRESS = '127.10.2'

```

	ID	USERID	USERNAME	LOGINTYPE	IPADDRESS	DATE_
1	1	1	N_SEGUN	1	127.1.1	2024-10-14 12:52:04.127
2	2	NULL	A_POCAN	0	127.10.2	2024-10-14 12:52:44.107
3	3	NULL	A_POCAN	0	127.10.2	2024-10-14 13:31:14.867