

1. All the information from packages and admins with at least 1 package and id > 10, only 30 rows, 5 cut off.

The screenshot shows a SQL IDE interface with a query window, a database explorer, and a results pane. The query is a JOIN between the Package and Admin tables, filtered by creator ID greater than 10, ordered by creator ID, and limited to 30 rows with an offset of 5.

```
SELECT * FROM Package P JOIN Admin A on A.ID = P.creator_ID WHERE A.ID > 10 ORDER BY creator_ID LIMIT 30 OFFSET 5;
```

The results pane displays a table with the following columns: P.ID, creation_time, package_name, price, specifications, and creator_ID. The table contains 30 rows of data, starting from row 11 of the total results.

P.ID	creation_time	package_name	price	specifications	creator_ID
1	66 2013-08-23 17:57:02.0	YER02	91	Y0480BHMNH9C6FY7H6P55MN20UVDRAYPK0IJX6GN8RC1ICLPLA...	14
2	32 2022-01-23 23:24:01.0	QH094	816	GK5FDKAF6TAYJVPUG08KMP98Z0W63EA01JQ5692AS7969VD0207...	15
3	55 1999-11-02 03:52:33.0	86YMH	71	JQ4CUBTZF3PH0ZRE7DKHFPRTLBP6864V71G02KAHUZ37SL5TCCP...	16
4	12 2020-05-07 17:00:37.0	E3XD4	834	69X3NC2PWKP7ASDRNB813J3JAM4T2UVP50PY3U7NA64PADHK...	18
5	80 2006-07-16 08:25:55.0	ZIYNT	14041	1LYF79LT93CTVULEZ1KT6VD5MNL3K0ZVDR81BNSVW7JPHR7ZRIZA...	21
6	17 2005-02-27 12:51:22.0	HUT1Y	68	UZW02Y0DN36ZQRF0F7N5KB85FRUBPIW08MWC0D3THHXZB00N7W1...	22
7	40 2018-08-28 04:51:25.0	NP1VD	171	TF8F738S4S3NX05UYEQ2J49I8SM011LWC310DHLTADU72XW5...	23
8	46 2003-06-07 16:52:19.0	VFUFF	936	Y0NWHCAF08RR8MDX6P3QRL0K3093KUC9PS8QUNKUNVHKLZP9C...	25
9	67 2013-06-01 20:52:30.0	A9SPP	89085	NNBKL6GF8FR89804DVY8F3QYPPAJ3RE3TI0D3XG6XAF3TBRE06...	25
10	19 2010-01-11 14:07:10.0	36N09	21	E3WYCAJS2163SKMA28YQE3WY8BLF3801F82RZ6WYQF4086K...	26
11	1 2017-12-02 09:33:20.0	TF4VW	9757	8N9MLUSPELZLRHMT11UYDXNECNWZP980G1D6KZ80360Q4LTL4...	27
12	8 2008-01-07 20:19:00.0	JLDHY	6907	3V0SXAT3683ZC8C40AMV38YFV11L88RZQY800CTI8Y9768SA6I...	27
13	94 2006-05-15 19:50:13.0	0MUON	1289	AQ3ZARQ07Q084580XNF0KELZ8964Q01EXD9P717DQ0HW3C9...	27
14	29 2014-10-13 21:09:46.0	4MRH2	90	993NDXNBH83S0JQF4F1Z8B5E289ADUUVICIAQL19PRZ4H8ICQ7...	28
15	56 2010-12-22 08:28:43.0	S38HN	74	10CQZADHHDIOCK0BTNKSZIUWAJDM49Q12TRHZ1QHB2PAPR2L3...	28
16	73 2012-06-13 05:44:12.0	A4ESP	54	1XF17HJ80F0527N6NEEIXSH0XMM8EBE0KXK6J22NWC0UQZAO...	33
17	28 1999-08-14 00:35:17.0	Z086B	4158	5DH6VP676MXN90ZHHK290SKYTDW1N70Z7983QP20CN9VZM0T5L8...	34
18	92 2016-09-11 02:30:41.0	GKXE3	260	Z20BDCSNSJZ8BYK03M388B4ZUKZLUP7K78H4S4R02FQCVGN2OL...	34
19	59 2009-08-20 16:27:47.0	62TD6	19	L6KSZSYPMP14P0108CH0855P5E4WBKAUHTZJESINVB0CXANUQLH...	38
20	31 2019-10-03 04:22:59.0	62YLO	85409	1LB65707C0FVWEN25LEDLM9KQNS5K050QY0TNJ28J0AG160B190...	39
21	64 2019-09-24 20:31:23.0	LCAD8	71274	R4EA10APD2L6Q7642EWNQ8AIWHUHV7QRHCR8BU9MIT3M524FY...	39
22	79 1999-10-12 06:31:18.0	TU2QI	3497	P9M6SRBPG2W00CDEQ46UKJVA5T5PMFHRTCTFS3PNT23JYHLH...	40
23	81 1998-06-24 04:39:23.0	5IPKN	877	W3B86DCVULU60MDFP3K31BF8WMB394XQ2JWUPAGMHY3X1E20C0Y...	40
24	96 1999-12-21 16:50:10.0	IRXBL	953	93ELOHECLLV13BPRKUX2JFR7Q4H9V3J2780GSRZ4HUA8XFYKZ4...	40
25	16 1993-01-26 17:20:38.0	VR2S4	96950	J7E1J0L64RY9355Z5LALWJ2JIS06AZGWTV9IXBEE7KYL2BZNAE6...	42
26	35 2008-10-27 00:21:34.0	2909Y	88751	P48T74BNH5QNPVZTMC6MCT1XDKIC3Y3FV6B5UHG04B695Y1VW...	42
27	54 2012-06-02 21:53:45.0	839UJ	40944	SCMGP6MX7U6GKNIVNG15PSA1YL1UX40XUQF0UVP7PII0VDEL2...	42
28	60 1992-12-16 07:09:13.0	XMPQN	56779	EK72MQ61480GK731R1JWU5ADEN5TYN139M8B6C0Y8PX6LDQV5U...	42
29	2 2003-05-22 09:34:32.0	P3GYL	5483	8UC8QKNNB7XJ72VWRF80WH1DV9U00GA10AKW70Z4SW37Q6V34U...	43
30	62 2008-04-03 17:16:20.0	29BLW	4196	F6621MANNWZ3E9BUU6L7WABCENRIPYHS480PYGZKUAQ05Y8LW9...	44

- Min and max grade from test attempt with responders created by ids > 55, aggregated by responder's creator id.

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
SELECT MIN(TA.grade), MAX(TA.grade) FROM TestAttempt TA JOIN Responder R on R.ID = TA.responder_ID WHERE R.creator_ID > 55 GROUP BY R.creator_ID;
```

The results are displayed in a table with 25 rows. The columns are 'MIN(TA.grade)' and 'MAX(TA.grade)'. The data is grouped by 'R.creator_ID'.

	MIN(TA.grade)	MAX(TA.grade)
1	1.58834	19.7321
2	0.128852	17.1239
3	3.46592	14.2188
4	0.353054	16.4594
5	10.8807	18.09
6	3.28051	9.50113
7	12.1983	12.1983
8	12.5934	12.8977
9	1.29889	19.3219
10	3.11372	16.4658
11	8.92991	10.5459
12	3.08082	3.08082
13	3.05483	4.46573
14	9.8062	9.8062
15	15.219	13.219
16	6.8675	7.25536
17	14.4851	14.4851
18	9.14259	19.7804
19	19.1636	19.1636
20	11.4444	17.9383
21	7.42566	13.5069
22	3.64681	6.16297
23	1.00873	18.4865
24	8.78549	15.006
25	11.7224	12.6138

The console also shows a list of services on the left and a status bar at the bottom indicating 25 rows retrieved starting from 1 in 27 ms (execution: 8 ms, fetching: 19 ms).

3. avg(salary) of techs created by an admin with at least 1 package

The screenshot displays the SQL Server Enterprise Manager interface. The query editor shows the following SQL statement:

```
SELECT AVG(T.salary), T.creator_ID FROM Tech T JOIN Package P on T.creator_ID = P.creator_ID WHERE T.salary > 1000 GROUP BY T.creator_ID HAVING T.creator_ID > 100
```

The query results are displayed in the Output pane, showing 22 rows. The columns are 'AVG(T.salary)' and 'creator_ID'.

AVG(T.salary)	creator_ID
301867.0000	34
291520.3333	44
8241280.0000	49
82623.0000	54
3732443.5000	56
1532.0000	59
5742.5000	64
188200.0000	65
191436.0000	67
86232.0000	70
8067505.0000	71
9868781.0000	73
262093.0000	75
715230.0000	76
783278.0000	77
474727.0000	79
1519790.0000	82
77899.3333	84
310584.0000	91
72658.5000	96
97603.0000	98
469852.0000	100

The status bar at the bottom indicates that 22 rows were retrieved starting from 1 in 30 ms (execution: 6 ms, fetching: 24 ms).

4. The count of WAITING tickets aggregated with their customer id

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
SELECT COUNT(*), C.ID FROM Ticket T JOIN Customer C on C.ID = T.creator_ID WHERE status = 'WAITING' GROUP BY C.ID HAVING C.ID > 20;
```

The results are displayed in a table with 12 rows. The columns are 'COUNT(*)' and 'ID'.

COUNT(*)	ID
1	21
2	30
1	32
1	34
1	40
2	42
1	46
1	59
2	62
1	66
1	69
1	76

The console also shows a list of services on the left, including 'OnlineTest@localhost' and several 'console' instances. The bottom status bar indicates '12 rows retrieved starting from 1 in 27 ms (execution: 8 ms, fetching: 22 ms)'.

5. The summation of points by responder id = 12 and question creator id > 12

The screenshot shows a database console interface with the following components:

- Database Explorer:** Shows a tree view with 'OnlineTest@localhost' selected, containing 'tables' and 'Server Objects'.
- Console:** Displays a SQL query: `SELECT SUM(Q.point) FROM Question Q JOIN QuestionAttempt QA ON Q.ID = QA.question_ID WHERE QA.responder_ID = 12 GROUP BY Q.creator_ID HAVING Q.creator_ID > 12`. The query is executed successfully, indicated by a green checkmark.
- Output:** Shows the result of the query in a table with 1 row and 1 column. The value is `7.786935485731201`.
- Services:** A list of services including 'OnlineTest@localhost', 'console_2', 'console_1', and 'console_49'.
- Status Bar:** At the bottom, it shows '1 row retrieved starting from 1 in 28 ms (invocation: 7 ms, fetching: 21 ms)'.

6. The count of courses of the customers having that package

The screenshot shows a database console interface with a SQL query and its results. The query is:

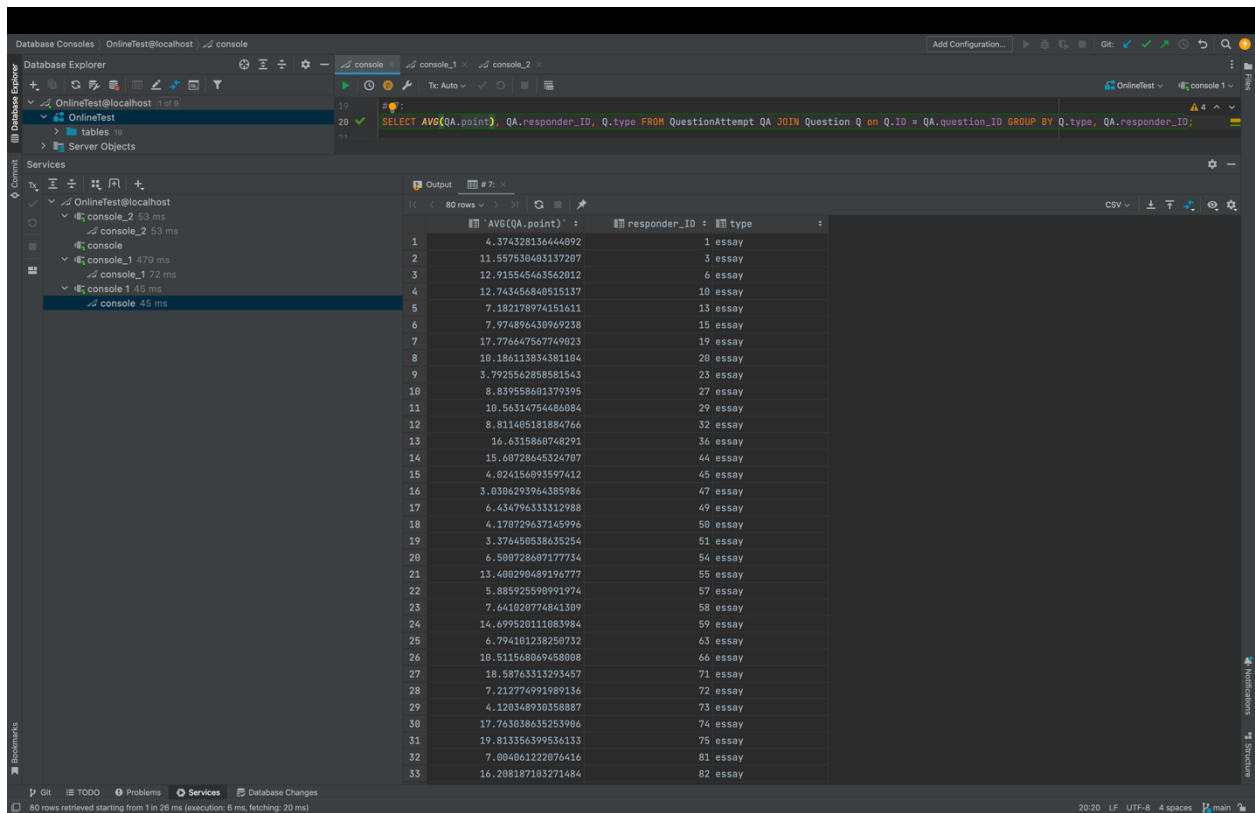
```
SELECT COUNT(C2.ID), C1.current_package_ID FROM Customer C1 JOIN Course C2 on C1.ID = C2.creator_ID GROUP BY C1.current_package_ID ORDER BY COUNT(C1.ID)
```

The results are displayed in a table with 43 rows. The columns are labeled 'COUNT(C2.ID)' and 'current_package_ID'.

COUNT(C2.ID)	current_package_ID
7	46
5	60
5	48
4	82
4	75
4	43
4	97
3	49
3	78
3	10
3	12
3	53
3	51
3	64
3	71
3	50
3	24
2	15
2	74
2	32
2	7
2	69
2	42
2	89
2	55
2	96
2	25
1	91
1	61
1	65
1	22
1	42
1	36

The status bar at the bottom indicates: 43 rows retrieved starting from 1 in 27 ms (execution: 7 ms, fetching: 20 ms).

7. AVG of points from question attempt grouped by responders id and question type



The screenshot shows a database console interface with a SQL query and its results. The query is:

```
SELECT AVG(QA.point), QA.responder_ID, Q.type FROM QuestionAttempt QA JOIN Question Q on Q.ID = QA.question_ID GROUP BY Q.type, QA.responder_ID;
```

The results are displayed in a table with 33 rows. The columns are:

- AVG(QA.point)
- responder_ID
- type

AVG(QA.point)	responder_ID	type
4.374328136444092	1	essay
11.557530403137207	3	essay
12.915545463562012	6	essay
12.743456840515137	10	essay
7.182178974151611	13	essay
7.974896430969238	15	essay
17.776447567749023	19	essay
10.186113834381104	20	essay
3.7925562858581543	23	essay
8.839558601379395	27	essay
10.563147544868084	29	essay
8.811408181884766	32	essay
16.6315840748291	36	essay
15.60728645324707	46	essay
4.024154093597412	45	essay
3.0306293964385986	47	essay
6.434796333312988	49	essay
4.170729637145996	50	essay
3.376450538635254	51	essay
6.508728607177734	54	essay
13.400290489196777	55	essay
5.885925590991974	57	essay
7.641020774841309	58	essay
14.699520111083984	59	essay
6.794101238250732	63	essay
10.511548069458008	66	essay
18.58763313293457	71	essay
7.212774991989136	72	essay
4.120348930358887	73	essay
17.763038635253906	74	essay
19.813356399536133	75	essay
7.004061222076416	81	essay
16.288187103271484	82	essay

80 rows retrieved starting from 1 in 26 ms (execution: 8 ms, fetching: 20 ms)

8. The overall salary paid to the support with tickets of status ANSWERED and creator id > 30

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
SELECT SUM(S.salary), S.creator_ID, T.status, S.full_name FROM Support S JOIN Ticket T on S.ID = T.support_ID WHERE T.status = 'ANSWERED' GROUP BY S.c...
```

The results are displayed in a table with 13 rows. The columns are: SUM(S.salary), creator_ID, status, and full_name.

SUM(S.salary)	creator_ID	status	full_name
10110543	74	ANSWERED	DEBWM
9195793	59	ANSWERED	SUPHM
9147494	34	ANSWERED	22VDM
2071574	69	ANSWERED	JBWJV
1987437	53	ANSWERED	S13G4
1899469	68	ANSWERED	X3EQ0
48246	81	ANSWERED	2L8Y5
48353	52	ANSWERED	M4IH1
15167	48	ANSWERED	P804K
8810	55	ANSWERED	8NM1K
3602	64	ANSWERED	9BRPB
892	75	ANSWERED	N24A5
590	46	ANSWERED	2XFUZ

The console also shows a list of services on the left and a status bar at the bottom indicating 13 rows retrieved.

9. The count of each package customers

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
SELECT COUNT(*), P.package_name FROM Customer C JOIN Package P on C.current_package_ID = P.ID GROUP BY C.current_package_ID;
```

The results are displayed in a table with 33 rows. The first column is the count of customers for each package, and the second column is the package name.

COUNT(*)	package_name
1	TF4VV
1	P39YL
1	UCNL5
2	XSYYC
1	LI5C7
3	FD3ZQ
2	E3XD4
3	2ZT97
2	3SDE0
1	HUT1Y
1	3KAF3
1	WY8ZW
1	QPNNU
1	66VBL
2	TZ1TW
2	LZ16J
1	2U86B
1	MF236
2	QH094
1	630VD
1	2909Y
2	63U54
1	3ADQ6
1	VX18Q
2	K8644
1	F3U0X
3	VFUFF
2	XXVL4
2	GQ9BV
2	M5RYM
2	AR8CC
1	H8LXS
1	T6HCG

The console also shows a list of services on the left and a status bar at the bottom indicating 63 rows retrieved starting from 1 in 25 ms (execution: 6 ms, fetching: 20 ms).

10. The username of a test designer with at least 1 test

The screenshot displays the SQL Server Enterprise Manager interface. The 'Database Explorer' on the left shows the 'OnlineTest' database. The 'Query Editor' in the center contains the following SQL query:

```
SELECT DISTINCT TD.user_name FROM CourseTestDesigners CTD JOIN TestDesigner TD on CTD.testDesigner_ID = TD.ID;
```

The 'Output' pane on the right shows the results of the query, which are 33 rows of usernames. The status bar at the bottom indicates that the query executed successfully, returning 33 rows in 41 ms.

user_name
OSN6N
GUZCO
NF7FQ
DKQ9V
QF4KF
2THDQ
OCPEB
ZBUK6
Z2QGI
ESR11
OK099
RLMHF
MUGZK
62112
JQ12K
D012C
H00RI
51062
BXT6C
ZREWG
TMPA7
ELYLE
1WZ6L
B0GQJ
FR6FC
VHMVY
6WPGD
CNIWV
HQUDD
E4PPT
N972C
IS07Y
ST3UU

11. To get the support id from ticket refer

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
# 11: TO GET THE SUPPORT ID FROM TR  
SELECT DISTINCT T.ID, TR.support_ID FROM Ticket T LEFT JOIN TicketRefer TR on T.ID = TR.ticket_ID;
```

The results are displayed in a table with 134 rows. The columns are ID and support_ID. The data is as follows:

ID	support_ID
1	39
2	41
3	61
4	61
5	13
6	96
7	96
8	96
9	86
10	86
11	21
12	28
13	82
14	82
15	33
16	54
17	57
18	57
19	47
20	56
21	78
22	15
23	15
24	4
25	4
26	58
27	6
28	35
29	76
30	38
31	25
32	88
33	22

The status bar at the bottom indicates: 134 rows retrieved starting from 1 in 40 ms (execution: 9 ms, fetching: 31 ms).

12. To get the course name of each test id

The screenshot displays the SQL Server Enterprise Manager interface. The 'Database Explorer' pane on the left shows the 'OnlineTest' database. The 'Query Editor' pane in the center contains the following SQL query:

```
# 12: TO GET THE COURSE NAME  
SELECT T.ID, C.name FROM Test T LEFT JOIN Course C on C.ID = T.course_ID ORDER BY T.ID;
```

The 'Output' pane on the right shows the results of the query, which are 33 rows. The columns are 'ID' and 'name'. The data is as follows:

ID	name
1	1 9BXG6
2	2 C01RC
3	3 878SP
4	4 KAM21
5	5 D1E58
6	6 TTN4V
7	7 38G08
8	8 38G08
9	9 P41UN
10	10 13ZJG
11	11 Y8300
12	12 JQ818
13	13 F3WVT
14	14 WZ084
15	15 YVXST
16	16 XBX6I
17	17 TLL66
18	18 LUTTC
19	19 8SC67
20	20 Y8300
21	21 9081Q
22	22 576DL
23	23 PAEFA
24	24 433AN
25	25 BRJVB
26	26 BRJVB
27	27 7XQHP
28	28 WBYSS
29	29 BRJVB
30	30 BRJVB
31	31 YK420
32	32 YVXST
33	33 86LLU

The status bar at the bottom indicates that 100 rows were retrieved starting from 1 in 41 ms (execution: 8 ms, fetching: 33 ms).

13. To get the never-used questions

The screenshot shows a database IDE interface with a SQL query executed in the console. The query is:

```
# 13: TO GET NEVER-USED QUESTIONS  
SELECT Q.ID FROM TestQuestions TQ RIGHT JOIN Question Q ON TQ.question_ID = Q.ID WHERE TQ.ID IS NULL;
```

The output of the query is displayed in the Output window, showing 36 rows. The results are as follows:

ID	
9	78
10	87
11	26
12	92
13	85
14	67
15	96
16	94
17	78
18	10
19	73
20	45
21	63
22	95
23	52
24	98
25	62
26	14
27	29
28	34
29	71
30	9
31	100
32	30
33	13
34	65
35	79
36	59

The IDE interface includes a Database Explorer on the left, a Services panel, and a bottom status bar indicating 36 rows retrieved starting from 1 in 35 ms (execution: 5 ms, fetching: 30 ms).

14. To get each test designer of a test, its customer

The screenshot shows a database console interface with a SQL query and its results. The query is:

```
# 14: TO GET EACH TEST DESIGNER OF A TEST, ITS CUSTOMER  
SELECT TTD.test_ID, TD.creator_ID FROM TestTestDesigners TTD RIGHT JOIN TestDesigner TD on TTD.test_designer_ID = TD.ID;
```

The results are displayed in a table with 132 rows. The columns are **test_ID** and **creator_ID**. The data is as follows:

test_ID	creator_ID
9	13
10	<null>
11	18
12	33
13	<null>
14	64
15	40
16	23
17	<null>
18	<null>
19	34
20	77
21	2
22	<null>
23	40
24	49
25	15
26	79
27	39
28	97
29	24
30	<null>
31	<null>
32	52
33	30
34	78
35	50
36	57
37	<null>
38	<null>
39	91
40	8
41	18

The console also shows a list of services on the left and a status bar at the bottom indicating 132 rows retrieved.

15. To get the corresponding admin name and package id - full outer join

The screenshot shows a database console interface with a query editor and an output window. The query editor contains the following SQL statement:

```
# 15: TO GET CORRESPONDING ADMIN NAME AND PACKAGE ID - FULL OUTER JOIN
SELECT A.full_name, P.ID FROM Promote P LEFT JOIN Admin A on P.admin_ID = A.ID
```

The output window displays 140 rows of data. The columns are labeled 'full_name' and 'ID'. The data is as follows:

full_name	ID
VYBNJ	29
VYBNJ	75
IT9YL	51
CRRHW	84
WFRUO	56
GPONO	10
AFCEH	44
AFCEH	50
AFCEH	62
S6ZCJ	41
L7KY2	91
6UNED	15
6UNED	21
P2SHM	4
P2SHM	64
P2SHM	67
TLE9J	3
QXFGL	9
D12CC	93
BL6DT	27
BGH69	82
AJAV2	12
AJAV2	24
AJAV2	26
3TT1V	5
3TT1V	18
3TT1V	35
3TT1V	65
IQALW	59
IQALW	92
RUDBE	70
Q27Z9	66
Q27Z9	73

The status bar at the bottom indicates that 140 rows were retrieved starting from 1 in 28 ms (execution: 6 ms, fetching: 22 ms).