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Batch: Data Engineering

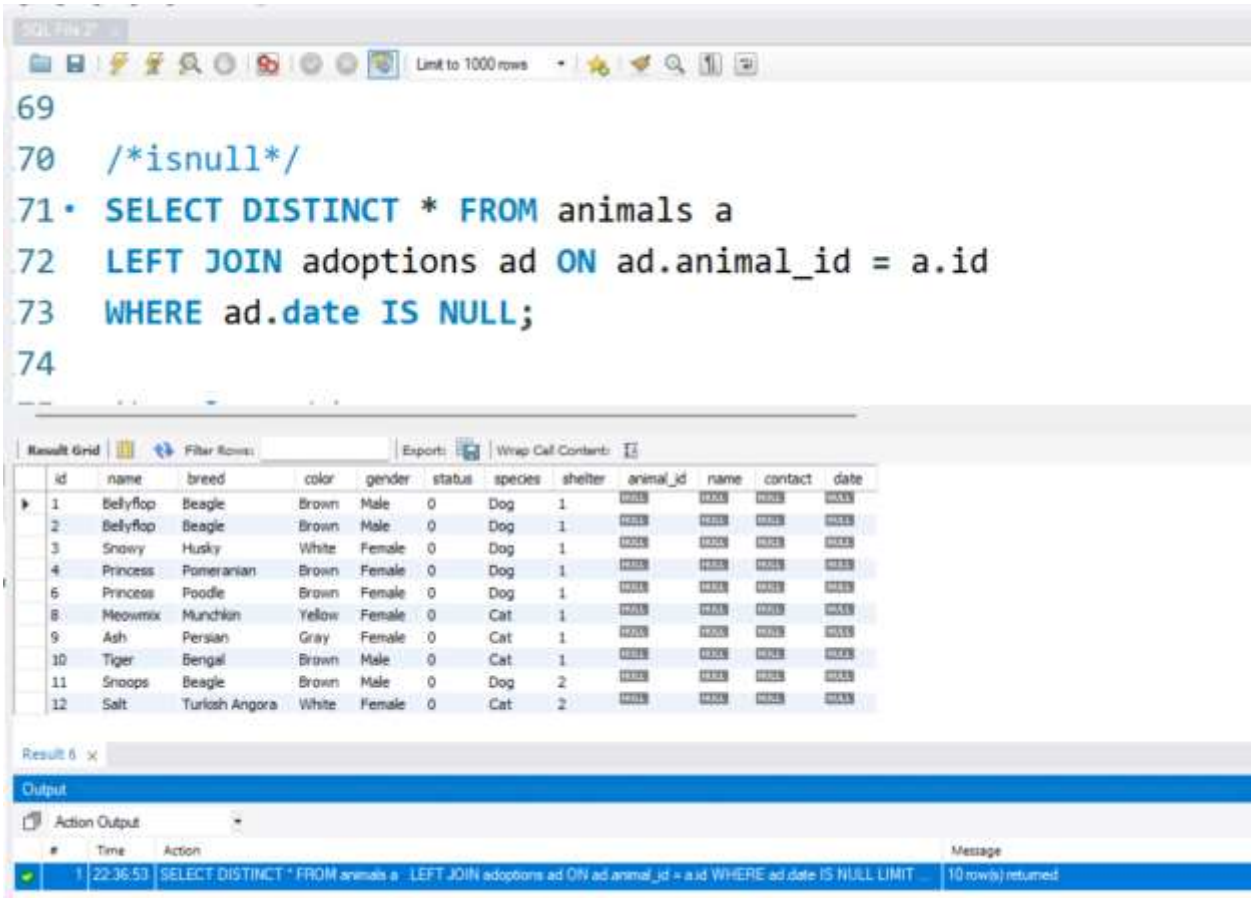
Date:23/01/2024

Topic: MYSQL(Data cleaning,rank,stored procedure)

Solution:

1. MYSQL:

ISNULL:



```
69
70   /*isnull*/
71 • SELECT DISTINCT * FROM animals a
72   LEFT JOIN adoptions ad ON ad.animal_id = a.id
73   WHERE ad.date IS NULL;
74
```

Result Grid

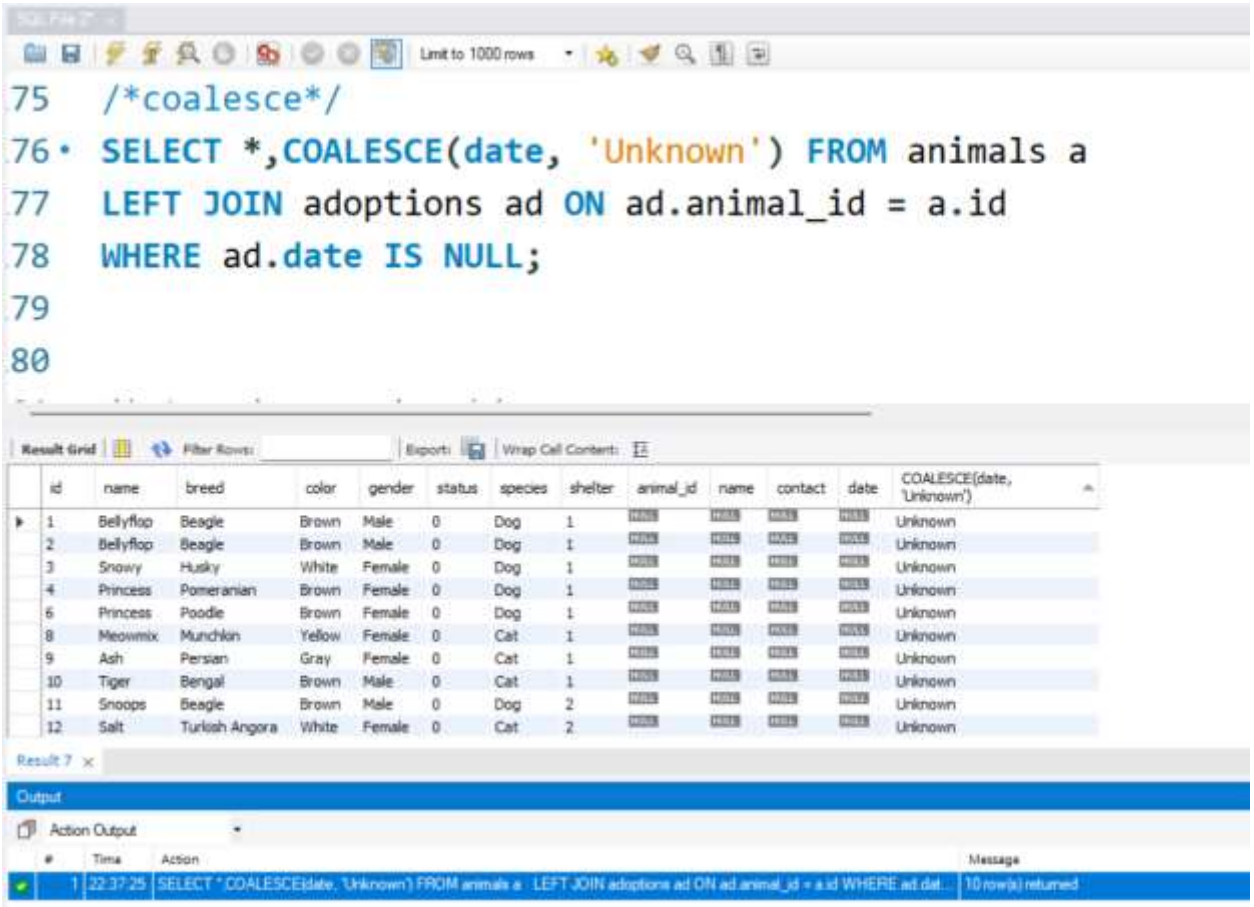
id	name	breed	color	gender	status	species	shelter	animal_id	name	contact	date
1	Bellyflop	Beagle	Brown	Male	0	Dog	1	NULL	NULL	NULL	NULL
2	Bellyflop	Beagle	Brown	Male	0	Dog	1	NULL	NULL	NULL	NULL
3	Snowy	Husky	White	Female	0	Dog	1	NULL	NULL	NULL	NULL
4	Princess	Pomeranian	Brown	Female	0	Dog	1	NULL	NULL	NULL	NULL
6	Princess	Poodle	Brown	Female	0	Dog	1	NULL	NULL	NULL	NULL
8	Meowmix	Munchkin	Yellow	Female	0	Cat	1	NULL	NULL	NULL	NULL
9	Ash	Persian	Gray	Female	0	Cat	1	NULL	NULL	NULL	NULL
10	Tiger	Bengal	Brown	Male	0	Cat	1	NULL	NULL	NULL	NULL
11	Snoops	Beagle	Brown	Male	0	Dog	2	NULL	NULL	NULL	NULL
12	Salt	Turkish Angora	White	Female	0	Cat	2	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message
1	22:36:53	SELECT DISTINCT * FROM animals a LEFT JOIN adoptions ad ON ad.animal_id = a.id WHERE ad.date IS NULL LIMIT ...	10 row(s) returned

COALESCE:



```
75  /*coalesce*/
76  SELECT *,COALESCE(date, 'Unknown') FROM animals a
77  LEFT JOIN adoptions ad ON ad.animal_id = a.id
78  WHERE ad.date IS NULL;
79
80
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

id	name	breed	color	gender	status	species	shelter	animal_id	name	contact	date	COALESCE(date, 'Unknown')
1	Bellyflop	Beagle	Brown	Male	0	Dog	1	NULL	NULL	NULL	NULL	Unknown
2	Bellyflop	Beagle	Brown	Male	0	Dog	1	NULL	NULL	NULL	NULL	Unknown
3	Snowy	Husky	White	Female	0	Dog	1	NULL	NULL	NULL	NULL	Unknown
4	Princess	Pomeranian	Brown	Female	0	Dog	1	NULL	NULL	NULL	NULL	Unknown
6	Princess	Poodle	Brown	Female	0	Dog	1	NULL	NULL	NULL	NULL	Unknown
8	Meowmix	Munchkin	Yellow	Female	0	Cat	1	NULL	NULL	NULL	NULL	Unknown
9	Ash	Persian	Gray	Female	0	Cat	1	NULL	NULL	NULL	NULL	Unknown
10	Tiger	Bengal	Brown	Male	0	Cat	1	NULL	NULL	NULL	NULL	Unknown
11	Snoops	Beagle	Brown	Male	0	Dog	2	NULL	NULL	NULL	NULL	Unknown
12	Salt	Turkish Angora	White	Female	0	Cat	2	NULL	NULL	NULL	NULL	Unknown

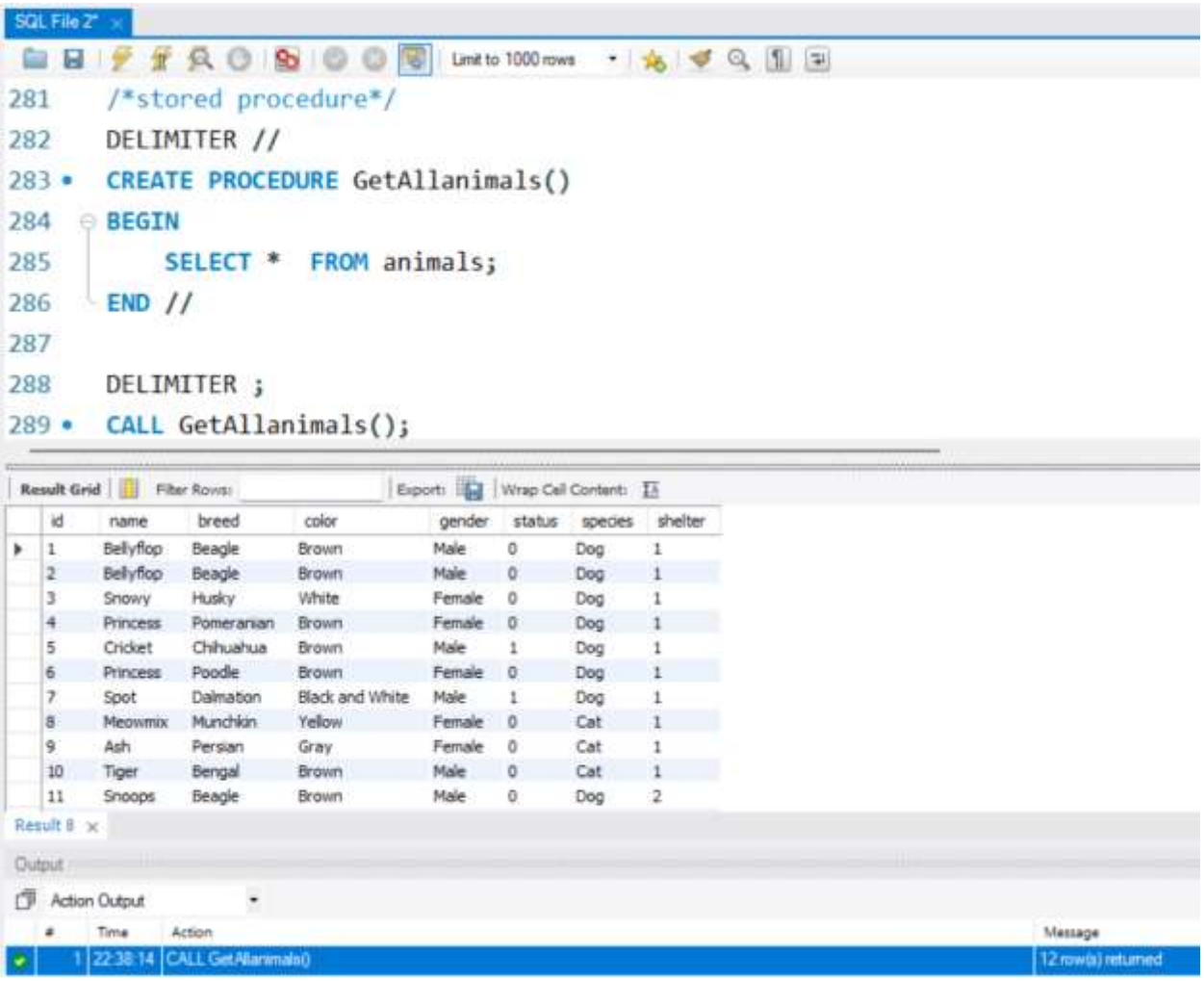
Result 7

Output

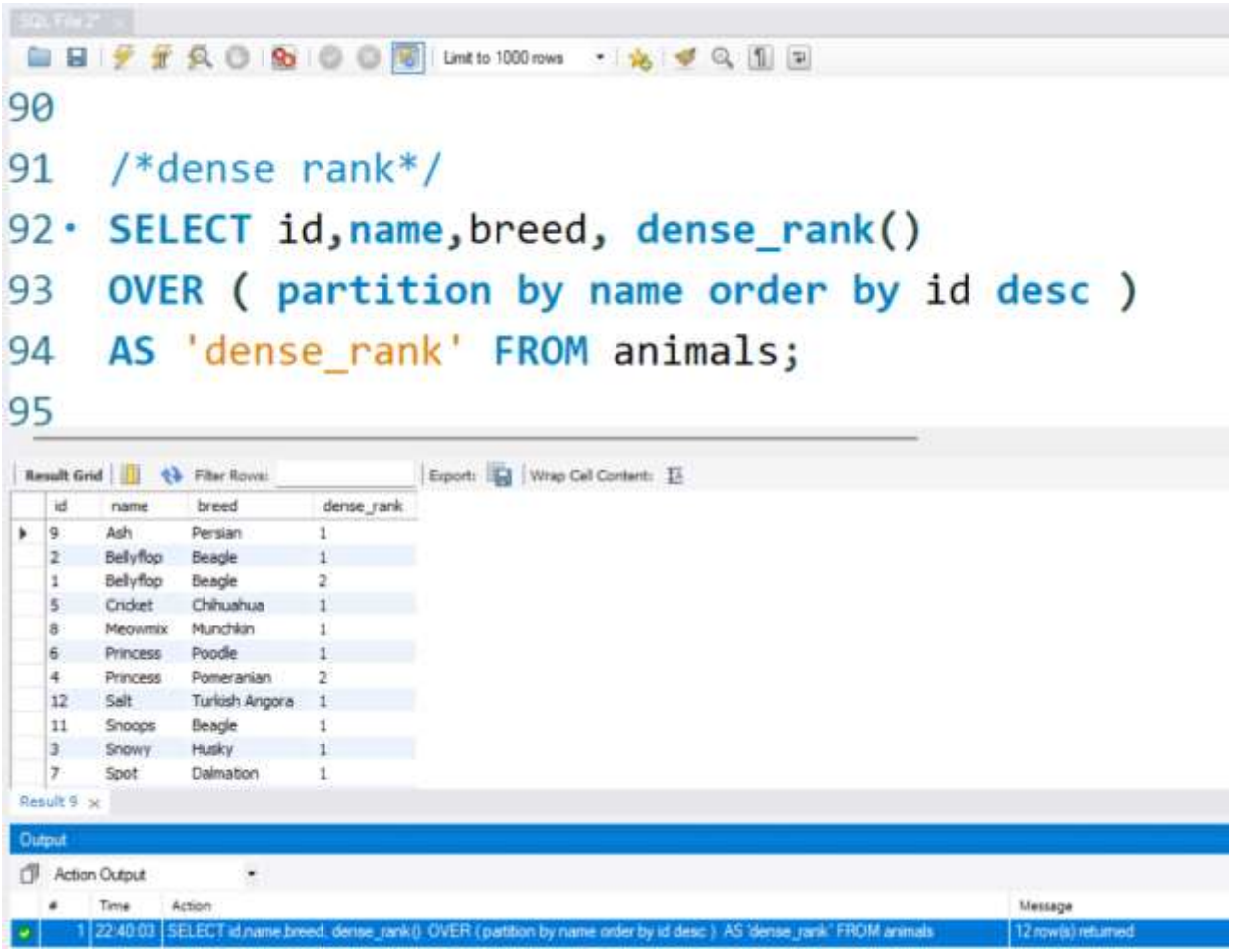
Action Output

#	Time	Action	Message
1	22:37:25	SELECT *,COALESCE(date, 'Unknown') FROM animals a LEFT JOIN adoptions ad ON ad.animal_id = a.id WHERE ad.dat...	10 row(s) returned

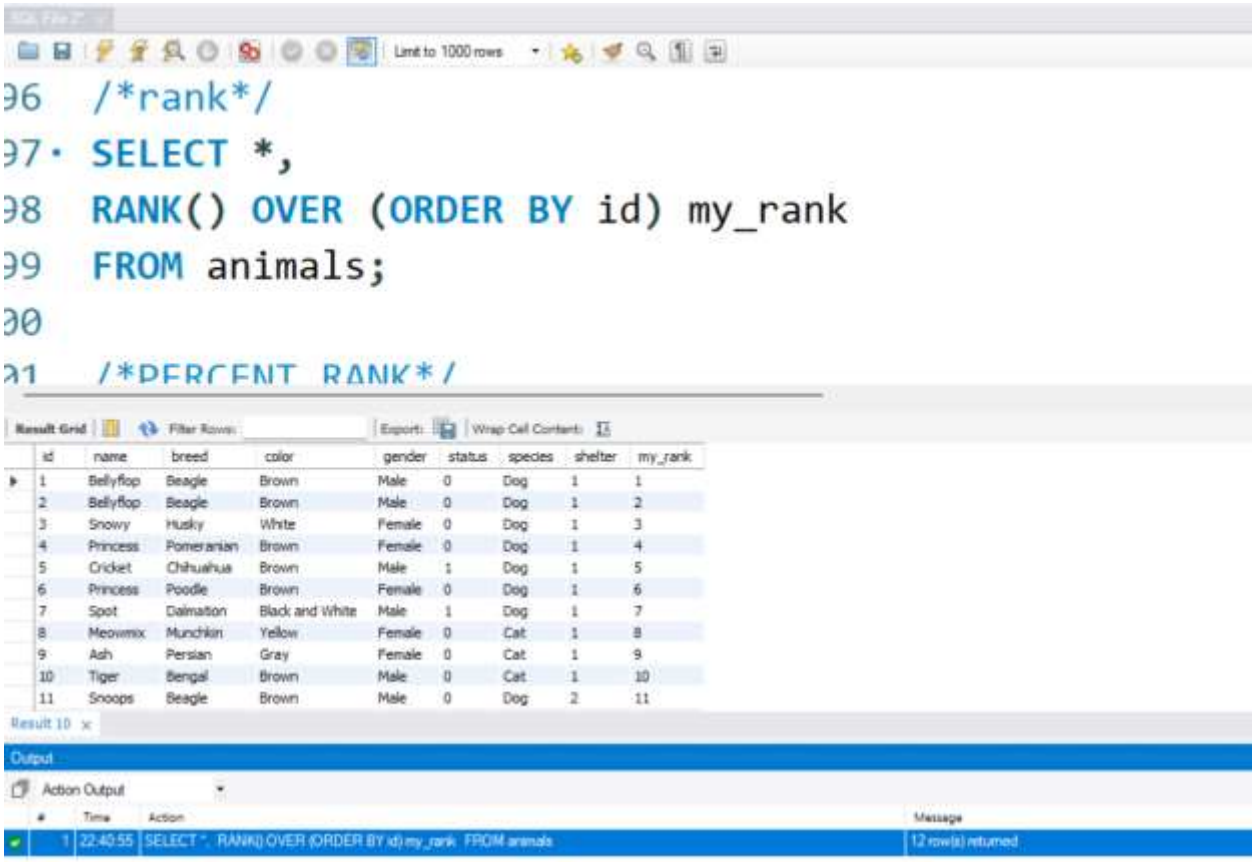
STORED PROCEDURE:



DENSE RANK:


Limit to 1000 rows
90
91 /*dense rank*/
92 SELECT id,name,breed, dense_rank()
93 OVER (partition by name order by id desc)
94 AS 'dense_rank' FROM animals;
95
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
id name breed dense_rank
9 Ash Persian 1
2 Bellyflop Beagle 1
1 Bellyflop Beagle 2
5 Cricket Chihuahua 1
8 Meowmix Munchkin 1
6 Princess Poodle 1
4 Princess Pomeranian 2
12 Salt Turkish Angora 1
11 Snoops Beagle 1
3 Snowy Husky 1
7 Spot Dalmation 1
Result 9
Output
Action Output
Time Action Message
1 22:40:03 SELECT id,name,breed, dense_rank() OVER (partition by name order by id desc) AS 'dense_rank' FROM animals 12 row(s) returned

RANK:



```
/*rank*/
SELECT *,
RANK() OVER (ORDER BY id) my_rank
FROM animals;

/*PERCENT_RANK*/
```

id	name	breed	color	gender	status	species	shelter	my_rank
1	Bellyflop	Beagle	Brown	Male	0	Dog	1	1
2	Bellyflop	Beagle	Brown	Male	0	Dog	1	2
3	Snowy	Husky	White	Female	0	Dog	1	3
4	Princess	Pomeranian	Brown	Female	0	Dog	1	4
5	Cricket	Chihuahua	Brown	Male	1	Dog	1	5
6	Princess	Poodle	Brown	Female	0	Dog	1	6
7	Spot	Dalmation	Black and White	Male	1	Dog	1	7
8	Meowmix	Munchkin	Yellow	Female	0	Cat	1	8
9	Ash	Persian	Gray	Female	0	Cat	1	9
10	Tiger	Bengal	Brown	Male	0	Cat	1	10
11	Snoops	Beagle	Brown	Male	0	Dog	2	11

Result 10

Output

Action Output

#	Time	Action	Message
1	22:40:55	SELECT *, RANK() OVER (ORDER BY id) my_rank FROM animals	12 row(s) returned

PERCENT RANK: