

3
MAY
2023

Wednesday

Woensdag
Ngqelestathu
Laboraro
Laboraro
Laboraro
Lesitsatfu
Lavhuraru
Ravunharhu
uLwesithathu
uLwesithathu

Week 18 123•242

TRAVEL LOG

Start km _____
End km _____
Total km _____
Business _____
Private _____

Costs
Parts _____
Oil _____
Fuel _____
Toll _____
Other _____

07:00 Day 13

07:30

08:00 Exercise 2: SQL Aggregate Functions and
08:30 SQL Operators

09:00

09:30 Table: students

10:00

10:30 1. SELECT DISTINCT department
11:00 FROM students;

11:30

12:00	department
12:30	FT
13:00	HR
13:30	Finance

14:00

14:30 2. SELECT department,
15:00 AVG(age) AS avg-age
15:30

16:00 FROM students;
16:30 GROUP BY department;

17:00

17:30	department	avg-age
18:00	FT	20.5
18:30	HR	22
19:00	Finance	23

19:30

20:00

"Be undeniably good.

No marketing effort or social media buzzword can be a substitute for that."

Anthony Volodkin

APRIL 2023

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
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MAY 2023

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8	9	10	11	12	13	14
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22	23	24	25	26	27	28
29	30	31				

TRAVEL LOG		Costs	
Start km		Parts	
End km		Oil	
Total km		Fuel	
Business		Toll	
Private		Other	

Thursday
Donderdag
Ngulesine
Labone
Labone
Labone
Lesine
Lavhuna
Ravumune
utwesine
utwesine

4
MAY
2023

124-241 Week 18

NAMIBIA: Cassinga Day

18 3. SELECT department,
COUNT(student_id) AS student_count

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FROM students
GROUP BY department

HAVING student_count > 1

department	student_count
IT	2
HR	2

4. SELECT ~~student_id, name, age~~ age, department
FROM students
WHERE age BETWEEN 21 AND 23;

Student_id	name	age	department
2.	Bob	22	HR
3.	Charlie	21	IT
4.	Diana	23	Finance
5.	Eve	22	HR

JUNE 2023	JULY 2023
S M T W T F S	S M T W T F S
1 2 3	1
4 5 6 7 8 9 10	2 3 4 5 6 7 8
11 12 13 14 15 16 17	9 10 11 12 13 14 15
18 19 20 21 22 23 24	16 17 18 19 20 21 22
25 26 27 28 29 30	23 24 25 26 27 28 29
	30 31

"Make your product easier to buy than your competition, or you will find your customers buying from them, not you."
Mark Cuban

5
MAY
2023

Friday
Vrydag
Ngqeshana
Labohlano
Labohlano
Labohlano
Lesihlanu
Lavhulana
Ravunthana
ulwesihlanu

Week 18 125-240

TRAVEL LOG

Start km
End km
Total km
Business
Private

Costs

Parts
Oil
Fuel
Toll
Other

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5. SELECT student_id,
name,
age,
department

FROM students

WHERE department IN('IT', 'HR') AND
age > 21;

* HAVING - only use HAVING to filter
aggregated data

* WHERE -> TO filter data that is not
aggregated

student_id	name	age	department
2	Bob	22	HR
5	Eve	22	HR

"One of the most sincere forms of respect is
actually listening to what another has to say."
Bryant McGill

APRIL 2023

S M T W T F S
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2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30

MAY 2023

S M T W T F S
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

6
MAY
2023

Saturday
Saterdag
Mqibelo
Mokibelo
Mogobelo
Lamatlhatso
Umgibelo
Mughivela
Mughivela
uMqibelo
uMqibelo

Week 18 126+239

Sunday
Sondag
Ngusondarha
Lamarena
Sontaha
La Tshipi
Lisontfo
Swondaha
Sonto
iCawa
iSonto

7
MAY
2023

127+238 Week 18

Table: courses

07:00 6. SELECT department,
07:30 ~~sum~~ (credits) AS total-credits

08:00 FROM courses

08:30 GROUP BY department

09:00 HAVING ~~sum(credits) > 5~~ sum(credits) > 5;

10:00 ~~SELECT~~

department	total-credits
IT	11

11:00 7. SELECT course-id, course-name, department,
11:30 credits

12:00 FROM courses

12:30 WHERE course-name <> 4;

course-id	course-name	department	credits
101	SQL Basics	IT	3
104	Excel	Finance	2
105	Statistics	HR	3

JUNE 2023							JULY 2023						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

"Associate yourself with people of good quality,
for it is better to be alone than in bad company."
Booker T. Washington

8
MAY
2023

Monday
Maandag
Ngumvula
Mosupologo
Mantaha
Mosupologo
Umsombuluko
Musumbuluko
uMvulo
uMombuluko

Week 19 128-237

TRAVEL LOG
Start km _____
End km _____
Total km _____
Business _____
Private _____

Costs
Parts _____
Oil _____
Fuel _____
Toll _____
Other _____

07:00 8. SELECT course_id, course_name,
credits

07:30 FROM courses

08:00 ORDER BY credits DESC

08:30 LIMIT 3;

09:00

09:30	course_id	course_name	credits
10:00	102	Python SQL Basics	4
10:30	103	Data Science	4
11:00	101	SQL Basics	3
11:30			

12:00

12:30 Table: enrollments

13:00

13:30 9. SELECT MAX(grade) AS max_grade,
14:00 MIN(grade) AS min_grade,
14:30 AVG(grade) AS avg_grade

15:00

15:30 FROM enrollments;

16:00

16:30	max_grade	min_grade	avg_grade
17:00	90	78	84.6
17:30			

8:00

8:30

9:00

1:30

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"It takes 20 years to build a reputation and five minutes to ruin it.
If you think about that, you'll do things differently."
Warren Buffett

APRIL 2023

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY 2023

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

TRAVEL LOG		Costs	
Start km		Parts	
End km		Oil	
Total km		Fuel	
Business		Toll	
Private		Other	

Tuesday
Dinsdag
Ngqesibili
Labobedi
Labobedi
Labobedi
Lesibili
Lavhuvhili
Ravumbirhi
ulwesibini
ulwesibili

9
MAY
2023

129-236 Week 19

10. SELECT course-id,
COUNT(enrolled-id) AS enrollment-count
FROM employees
GROUP BY course-id;

course-id	enrollment-count
101	1
102	1
103	1
104	1
105	1

~~Table: salaries~~
Table: salaries

11. SELECT department,
SUM(salary) AS total-salary,
SUM(~~bonus~~) AS total-bonus
FROM salaries
GROUP BY department;

department	total-salary	total-bonus
IT	122000	10500
HR	109000	7500
Finance	7000	5000

JUNE 2023							JULY 2023						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

"Love is not affectionate feeling, but a steady wish for the loved person's ultimate good as far as it can be obtained."
C.S. Lewis

10
MAY
2023

Wednesday
Wensdag
Ngufestathu
Laboraro
Laboraro
Leitsaffu
Lavhuraru
Ravunharu
ulwesithathu

Week 19 130-235

TRAVEL LOG
Start km
End km
Total km
Business
Private

Costs
Parts
Oil
Fuel
Toll
Other

07:00 12 SELECT department,
07:30 AVG (salary) AS avg-salary
08:00 FROM salaries
08:30 GROUP BY department
09:00 HAVING AVG(salary) > 55 000
09:30
10:00

department	avg-salary
IT	61 000
Finance	7 000

130

14:00 13 SELECT employee-id, name, salary, bonus,
14:30 (salary + bonus) AS total-compensation
15:00

15:30 FROM salaries
16:00 (salary + bonus)
16:30 WHERE total-compensation > 60 000

employee-id	name	salary	bonus	total-compensation
1	Tom	50 000	5 000	55 000
3	Spike	70 000	6 000	76 000
4	Tyke	62 000	5 500	67 500

"No one can make you feel inferior without your consent."
Eleanor Roosevelt

APRIL 2023	MAY 2023
S M T W T F S	S M T W T F S
1	1 2 3 4 5
2 3 4 5 6 7 8	7 8 9 10 11 12
9 10 11 12 13 14 15	14 15 16 17 18 19
16 17 18 19 20 21 22	21 22 23 24 25 26
23 24 25 26 27 28 29	28 29 30 31
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TRAVEL LOG		Costs	
Start Km		Parts	
End Km		Oil	
Start Km		Fuel	
End Km		Toll	
Business		Other	
Private			

Thursday
Donderdag
Ngqesine
Labone
Labone
Labone
Lesine
Lavhuna
Ruvumuna
ulwesine
ulwesine

11
MAY
2023

131-234 Week 19

Table: projects

14. SELECT department,
SUM(budget) AS total-budget,
AVG(budget) AS avg-budget

FROM projects

~~GROUP BY department~~

GROUP BY department

HAVING AVG(budget) > 70 000;

department	total-budget	avg-budget
FT	270 000	135 000

15. SELECT project-id, project-name,
department, budget

FROM projects

WHERE budget BETWEEN 50 000 AND 120 000

~~NOT IN ('Marketing')~~ AND department

NOT IN ('Marketing');

JUNE 2023	JULY 2023
S M T W T F S	S M T W T F S
1 2 3	1
4 5 6 7 8 9 10	2 3 4 5 6 7 8
11 12 13 14 15 16 17	9 10 11 12 13 14 15
18 19 20 21 22 23 24	16 17 18 19 20 21 22
25 26 27 28 29 30	23 24 25 26 27 28 29
	30 31

"Leadership is the ability to get extraordinary
achievement from ordinary people."

Brian Tracy

12
MAY
2023

Friday
Vrydag
Ngquluthlanu
Labohlano
Labohlano
Lesihlanu
Lavhubanu
Ravunthlanu
ulwesihlanu

Week 19 132+233

TRAVEL LOG
Start km
End km
Total km
Business
Private

Costs
Parts
Oil
Fuel
Toll
Other

07:00 Expected output

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