

DATA 225 Database Project Criteria Evidences

Practiced pair programming?



MANJOT'S ORG - 2024-04-16 > TERM PROJECT



































Project Access Manager

Manage access to this project for users, teams, and API keys.

Users Teams API Keys

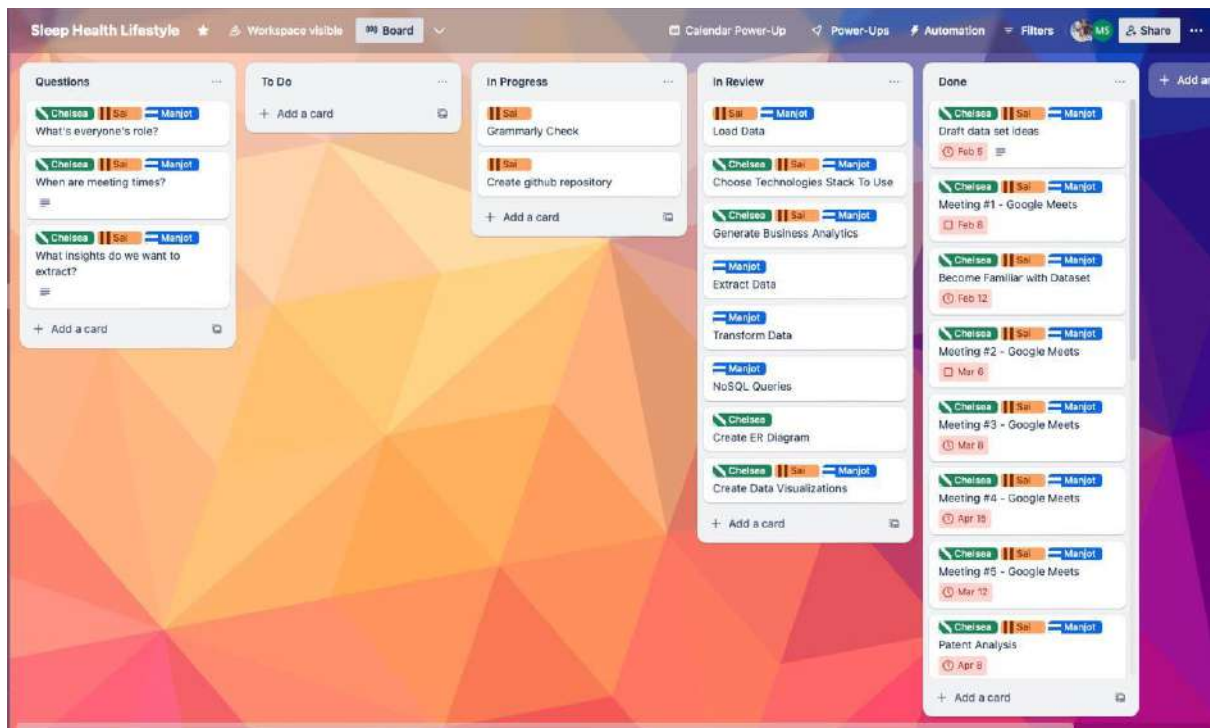
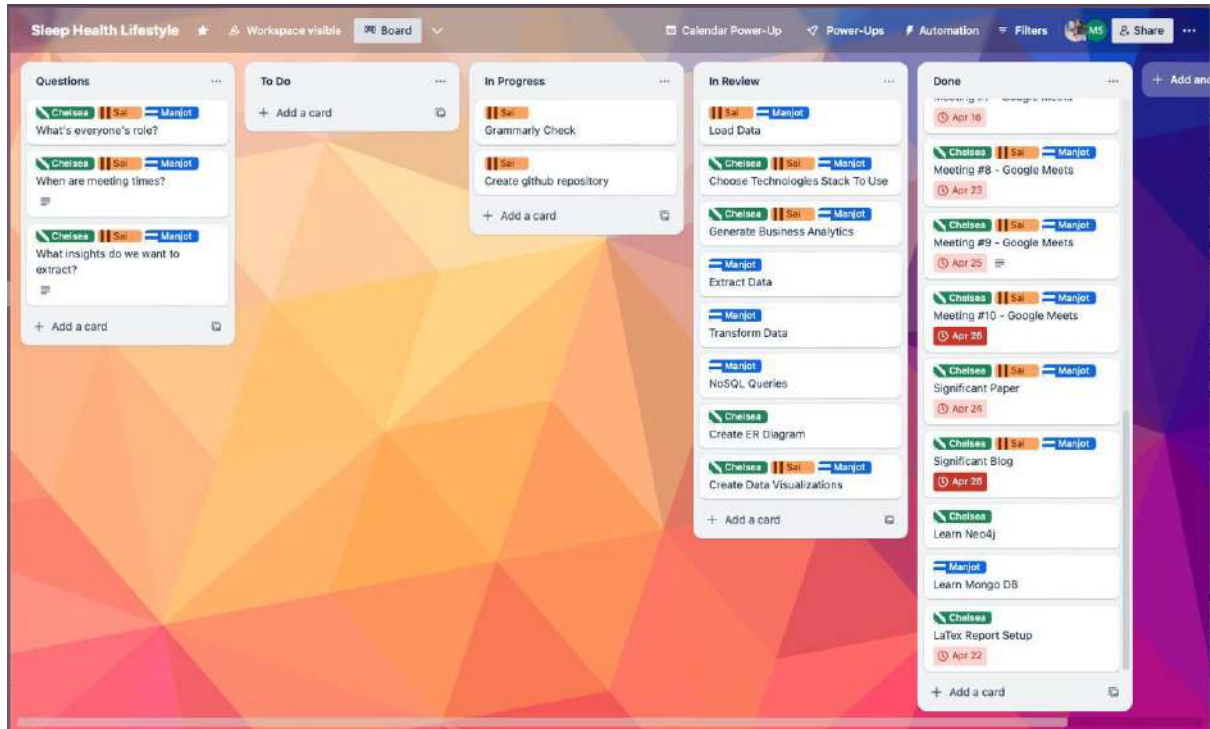
Find a user

Display Name	Email Address	Project Role	Created	Last Login	
Charts User	charts+661e20b68c7c1d51e32ff1fa@mongodb.com	Project Charts Admin	04/16/24 - 12:16:33 AM		 
Chelsea Chantele Jaculina	chelseachantele.jaculina@sjsu.edu	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/16/24 - 12:12:01 AM	04/26/24 - 08:37:36 PM	 
Manjot Singh	manjot.singh@sjsu.edu	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/15/24 - 11:54:46 PM	04/26/24 - 07:21:49 PM	 
Sai Prasad Thalluri	saiprasad.kcs219@gmail.com	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/16/24 - 12:05:28 AM	04/26/24 - 02:26:53 PM	 

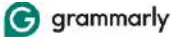
Role / Principal	Inheritance
▼ Owner (1)	
 manjot.singh@sjsu.edu	  
▼ BigQuery Data Viewer (3)	
 Viewers of project: term-project-421603	 
 saiprasad.thalluri@sjsu.edu	 
 chelseachantele.jaculina@sjsu.edu	 
▼ BigQuery Data Owner (4)	
 saiprasad.thalluri@sjsu.edu	 
 Owners of project: term-project-421603	 
 manjot.singh@sjsu.edu	 
 chelseachantele.jaculina@sjsu.edu	 
▼ BigQuery Data Editor (3)	
 saiprasad.thalluri@sjsu.edu	 
 Editors of project: term-project-421603	 
 chelseachantele.jaculina@sjsu.edu	 

Practiced agile / scrum (1-week sprints)?

Trello:



Used Grammarly / other tools for language?



Report: Sleep, Health, & Lifestyle Analysis

Sleep, Health, & Lifestyle Analysis

by Manjot Singh


General metrics

15,608	2,340	263	9 min 21 sec	18 min 0 sec
characters	words	sentences	reading time	speaking time

Score

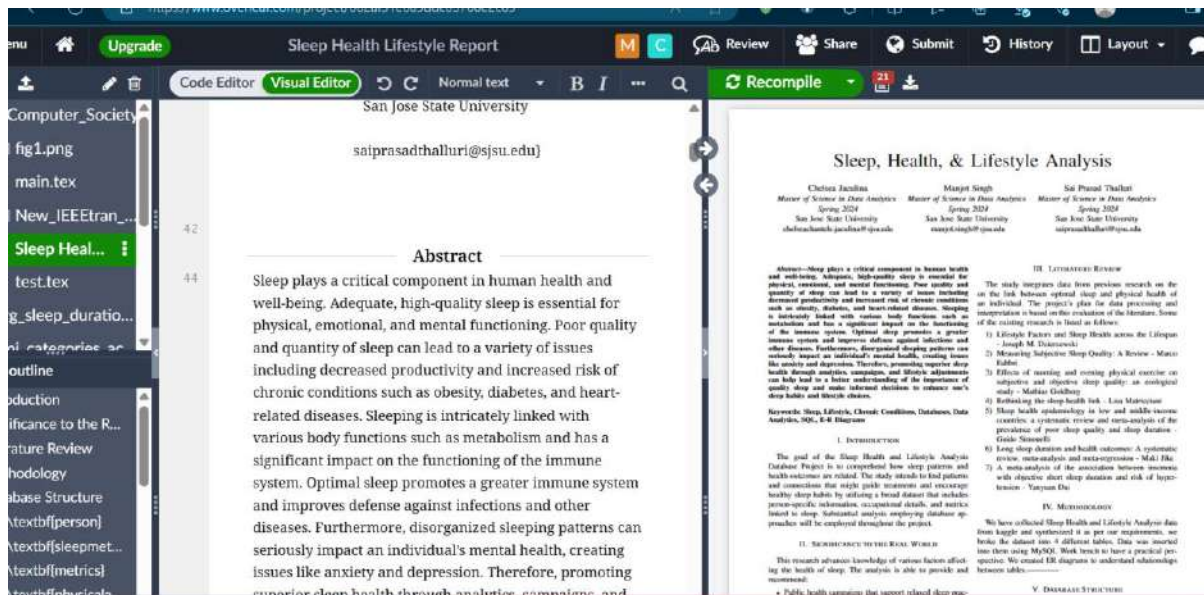
94

Writing Issues

42		42
Issues left	Critical	Advanced

This text scores better than 94%

Used unique tools: LATEX



[Sleep Health Lifestyle Report - Online LaTeX Editor Overleaf](#)

Used a new database or data warehouse tool not covered in the HW or class

Google Big Query Warehouse Tool

```
1 CREATE OR REPLACE TABLE Sleep_Health.TransformedData AS
2 SELECT
3     P.PersonID,
4     P.Gender,
5     P.Age,
6     P.Occupation,
7     SM.SleepDuration,
8     SM.QualityofSleep,
9     PA.PhysicalActivityLevel,
10    CASE
11        WHEN M.StressLevel <= 3 THEN 'Low Stress'
12        WHEN M.StressLevel > 3 AND M.StressLevel <= 6 THEN 'Moderate Stress'
13        ELSE 'High Stress'
14    END AS StressLevelCategory,
15    M.BMICategory,
16    M.BloodPressure,
17    M.HeartRate,
18    PA.DailySteps,
19    SM.SleepDisorder
20 FROM
21     Sleep_Health.Person AS P
22 JOIN
23     Sleep_Health.Sleep_Details AS SM ON P.PersonID = SM.PersonID
24 JOIN
25     Sleep_Health.Physical_Activity AS PA ON P.PersonID = PA.PersonID
26 JOIN
27     Sleep_Health.Metrics AS M ON P.PersonID = M.PersonID;
```

Row	PersonID	Gender	Age	Occupation	SleepDuration	QualityofSleep	PhysicalActivity	StressLevelCategory
1	18	Male	29	Doctor	6.0	6	30	High Stress
2	14	Male	29	Doctor	6.0	6	30	High Stress
3	16	Male	29	Doctor	6.0	6	30	High Stress
4	15	Male	29	Doctor	6.0	6	30	High Stress
5	62	Male	32	Doctor	6.0	6	30	High Stress
6	58	Male	32	Doctor	6.0	6	30	High Stress
7	55	Male	32	Doctor	6.0	6	30	High Stress
8	53	Male	32	Doctor	6.0	6	30	High Stress
9	59	Male	32	Doctor	6.0	6	30	High Stress
10	56	Male	32	Doctor	6.0	6	30	High Stress
11	61	Male	32	Doctor	6.0	6	30	High Stress
12	77	Male	33	Doctor	6.0	6	30	High Stress
13	80	Male	33	Doctor	6.0	6	30	High Stress
14	76	Male	33	Doctor	6.0	6	30	High Stress
15	68	Male	33	Doctor	6.0	6	30	High Stress
16	75	Male	33	Doctor	6.0	6	30	High Stress
17	78	Male	33	Doctor	6.0	6	30	High Stress
18	79	Male	33	Doctor	6.0	6	30	High Stress
19	269	Female	49	Nurse	6.0	6	90	High Stress

Job history

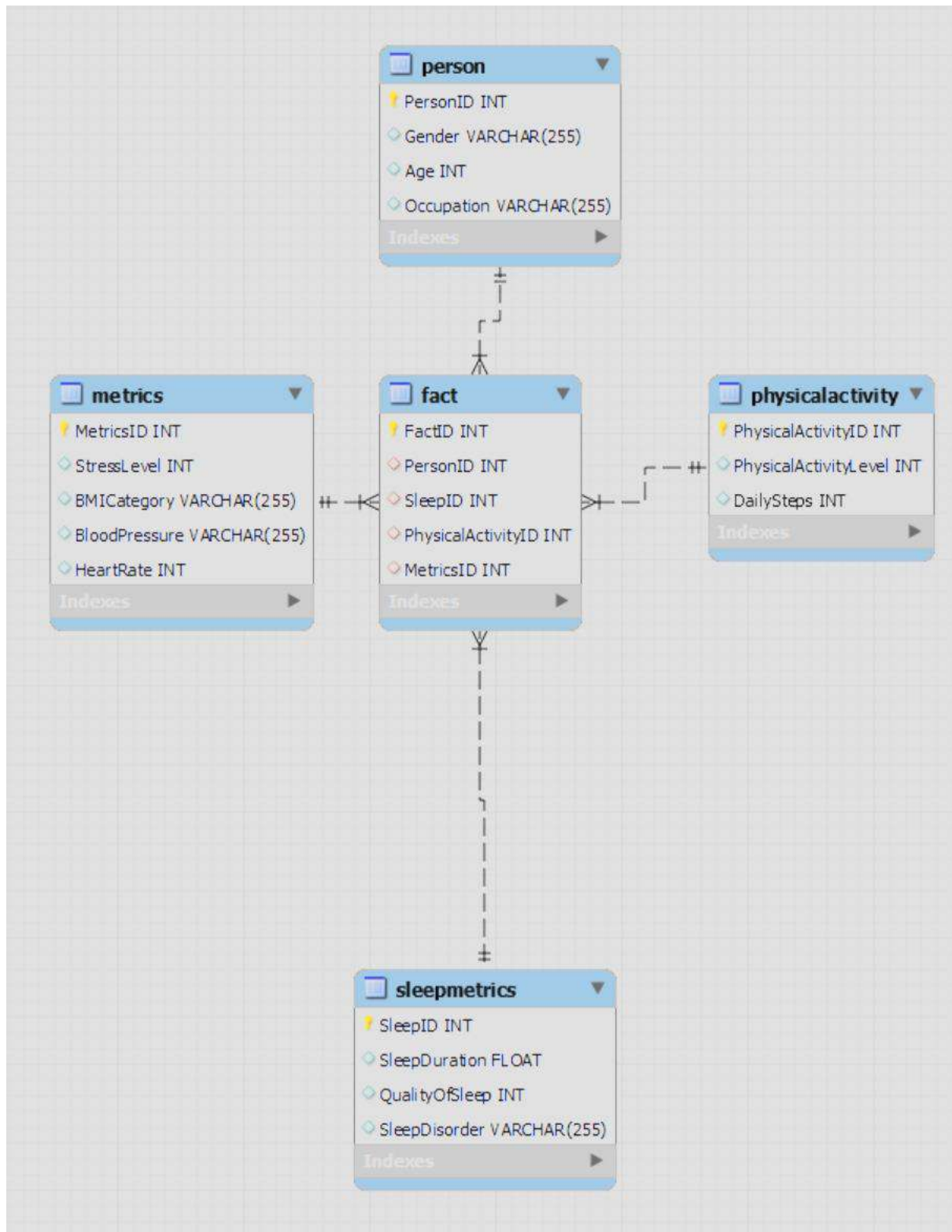
PERSONAL HISTORY

PROJECT HISTORY

Filter Enter property name or value

Job ID	Creation time	Owner	Type	Insights ?	Session ID	Actions
bquxjob_568da6fa_18f1df12406	April 26, 2024 10:04 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_3e63d64c_18f1deeb655	April 26, 2024 10:02 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_658f2084_18f1dede396	April 26, 2024 10:01 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_1418bbd7_18f1deb823b	April 26, 2024 9:58 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_71324b9_18f1deab931	April 26, 2024 9:57 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_6aa6660a_18f1de9d6a9	April 26, 2024 9:56 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_7152ab24_18f1de91f40	April 26, 2024 9:56 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_57d62796_18f1de7d45e	April 26, 2024 9:54 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_2fe83474_18f1de358ec	April 26, 2024 9:49 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_340195ed_18f1de22944	April 26, 2024 9:48 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_4802a4dd_18f1de11754	April 26, 2024 9:47 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_6d82ac0a_18f1ddfb834	April 26, 2024 9:45 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_453851fe_18f1dde242b	April 26, 2024 9:44 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_62b7c45d_18f1ddc8277	April 26, 2024 9:42 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_5f62f6bf_18f1ddb6df9	April 26, 2024 9:41 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_53252950_18f1ddb3f4c	April 26, 2024 9:41 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_4a170b15_18f1dd92dce	April 26, 2024 9:38 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_21360582_18f1dd2f386	April 26, 2024 9:31 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_5b0d5180_18f1dd295fa	April 26, 2024 9:31 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_23220022_18f1dcb9e92	April 26, 2024 9:23 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_4bfdbfdb_18f1dbdb8f7	April 26, 2024 9:08 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_3b6d5d67_18f1db91d70	April 26, 2024 9:03 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_79a5dae5_18f1db87d97	April 26, 2024 9:03 PM	manjot.singh@sjsu.edu	LOAD	-	-	⋮
bquxjob_4f86521a_18f1db807a7	April 26, 2024 9:02 PM	manjot.singh@sjsu.edu	LOAD	-	-	⋮
bquxjob_7bf7663d_18f1db4e9af	April 26, 2024 8:59 PM	manjot.singh@sjsu.edu	QUERY	-	-	⋮
bquxjob_33f6cb6_18f1dad3556	April 26, 2024 8:50 PM	manjot.singh@sjsu.edu	LOAD	-	-	⋮
bquxjob_281c4455_18f1dac8601	April 26, 2024 8:49 PM	manjot.singh@sjsu.edu	LOAD	-	-	⋮

Used appropriate data modeling techniques



Used ETL tool

Google Big Query

EXTRACT

```
1 SELECT
2   P.PersonID,
3   P.Gender,
4   P.Age,
5   SM.QualityofSleep,
6   PA.PhysicalActivityLevel,
7   M.StressLevel,
8   M.BMICategory,
9   M.BloodPressure,
10  PA.DailySteps,
11 FROM
12   Sleep_Health.Person AS P
13 JOIN
14   Sleep_Health.Sleep_Details AS SM ON P.PersonID = SM.PersonID
15 JOIN
16   Sleep_Health.Physical_Activity AS PA ON P.PersonID = PA.PersonID
17 JOIN
18   Sleep_Health.Metrics AS M ON P.PersonID = M.PersonID
19 WHERE
20   P.Age >= 30
21   AND SM.QualityofSleep >= 7
22   AND PA.PhysicalActivityLevel >= 3
23 ORDER BY
24   P.PersonID;
```

Press Alt+F1 for Accessibility Options

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION		RESULTS	CHART	JSON	EXECUTION DETAILS		EXECUTION GRAPH		
Row	PersonID	Gender	Age	QualityofSleep	PhysicalActivityLevel	StressLevel	BMICategory	BloodPressure	
1	20	Male	30	7	75	6	Normal	120/80	
2	21	Male	30	7	75	6	Normal	120/80	
3	22	Male	30	7	75	6	Normal	120/80	
4	23	Male	30	7	75	6	Normal	120/80	
5	24	Male	30	7	75	6	Normal	120/80	
6	25	Male	30	7	75	6	Normal	120/80	

TRANSFORM

```

1 CREATE OR REPLACE TABLE Sleep_Health.TransformedData AS
2 SELECT
3     P.PersonID,
4     P.Gender,
5     P.Age,
6     P.Occupation,
7     SM.SleepDuration,
8     SM.QualityofSleep,
9     PA.PhysicalActivityLevel,
10    CASE
11        WHEN M.StressLevel <= 3 THEN 'Low Stress'
12        WHEN M.StressLevel > 3 AND M.StressLevel <= 6 THEN 'Moderate Stress'
13        ELSE 'High Stress'
14    END AS StressLevelCategory,
15    M.BMICategory,
16    M.BloodPressure,
17    M.HeartRate,
18    PA.DailySteps,
19    SM.SleepDisorder
20 FROM
21     Sleep_Health.Person AS P
22 JOIN
23     Sleep_Health.Sleep_Details AS SM ON P.PersonID = SM.PersonID
24 JOIN
25     Sleep_Health.Physical_Activity AS PA ON P.PersonID = PA.PersonID
26 JOIN
27     Sleep_Health.Metrics AS M ON P.PersonID = M.PersonID;

```

Row	PersonID	Gender	Age	Occupation	SleepDuration	QualityofSleep	PhysicalActivity	StressLevelCategory
1	18	Male	29	Doctor	6.0	6	30	High Stress
2	14	Male	29	Doctor	6.0	6	30	High Stress
3	16	Male	29	Doctor	6.0	6	30	High Stress
4	15	Male	29	Doctor	6.0	6	30	High Stress
5	62	Male	32	Doctor	6.0	6	30	High Stress
6	58	Male	32	Doctor	6.0	6	30	High Stress
7	55	Male	32	Doctor	6.0	6	30	High Stress
8	53	Male	32	Doctor	6.0	6	30	High Stress
9	59	Male	32	Doctor	6.0	6	30	High Stress
10	56	Male	32	Doctor	6.0	6	30	High Stress
11	61	Male	32	Doctor	6.0	6	30	High Stress
12	77	Male	33	Doctor	6.0	6	30	High Stress
13	80	Male	33	Doctor	6.0	6	30	High Stress
14	76	Male	33	Doctor	6.0	6	30	High Stress
15	68	Male	33	Doctor	6.0	6	30	High Stress
16	75	Male	33	Doctor	6.0	6	30	High Stress
17	78	Male	33	Doctor	6.0	6	30	High Stress
18	79	Male	33	Doctor	6.0	6	30	High Stress
19	269	Female	49	Nurse	6.0	6	90	High Stress

Load

```
1 SELECT
2   f.FactID,
3   f.PersonID,
4   f.SleepID,
5   f.PhysicalActivityID,
6   f.MetricsID,
7   p.Gender,
8   p.Age,
9   p.Occupation,
10  s.SleepDuration,
11  s.QualityOfSleep,
12  s.SleepDisorder,
13  pa.PhysicalActivityLevel,
14  pa.DailySteps,
15  m.StressLevel,
16  m.BMICategory,
17  m.BloodPressure,
18  m.HeartRate
19 FROM
20   Sleep_Health.Fact_Table f
21 JOIN
22   Sleep_Health.Person p ON f.PersonID = p.PersonID
23 JOIN
24   Sleep_Health.Sleep_Details s ON f.SleepID = s.SleepID
25 JOIN
26   Sleep_Health.Physical_Activity pa ON f.PhysicalActivityID = pa.PhysicalActivityID
27 JOIN
28   Sleep_Health.Metrics m ON f.MetricsID = m.MetricsID
```

Query results

Row	FactID	PersonID	SleepID	PhysicalActivityID	MetricsID	Gender	Age	Occupation
1	1	1	1	1	1	Male		27 Software Engineer
2	2	2	2	2	2	Male		28 Doctor
3	3	3	3	3	3	Male		28 Doctor
4	4	4	4	4	4	Male		28 Sales Representative
5	5	5	5	5	5	Male		28 Sales Representative
6	6	6	6	6	6	Male		28 Software Engineer

Used RDBMS

Mysql:

```
1 SELECT
2   CASE
3     WHEN Age < 20 THEN 'Under 20'
4     WHEN Age >= 20 AND Age < 30 THEN '20-29'
5     WHEN Age >= 30 AND Age < 40 THEN '30-39'
6     WHEN Age >= 40 AND Age < 50 THEN '40-49'
7     ELSE '50+'
8   END AS AgeGroup,
9   SUM(CASE WHEN SleepDisorder = 'Insomnia' THEN 1 ELSE 0 END) AS Insomnia,
10  SUM(CASE WHEN SleepDisorder = 'Sleep Apnea' THEN 1 ELSE 0 END) AS SleepApnea,
11  SUM(CASE WHEN SleepDisorder = 'None' THEN 1 ELSE 0 END) AS None
12 FROM Person AS P
13 JOIN Sleepmetrics AS SM ON P.PersonID = SM.SleepID
14 GROUP BY AgeGroup;
```

Result Grid

	AgeGroup	Insomnia	SleepApnea	None
▶	20-29	3	4	12
	30-39	6	9	127
	40-49	60	15	42
	50+	8	50	38

Used Datawarehouse

Google Big Query:

```
1 CREATE OR REPLACE TABLE Sleep_Health.TransformedData AS
2 SELECT
3     P.PersonID,
4     P.Gender,
5     P.Age,
6     P.Occupation,
7     SM.SleepDuration,
8     SM.QualityofSleep,
9     PA.PhysicalActivityLevel,
10    CASE
11        WHEN M.StressLevel <= 3 THEN 'Low Stress'
12        WHEN M.StressLevel > 3 AND M.StressLevel <= 6 THEN 'Moderate Stress'
13        ELSE 'High Stress'
14    END AS StressLevelCategory,
15    M.BMICategory,
16    M.BloodPressure,
17    M.HeartRate,
18    PA.DailySteps,
19    SM.SleepDisorder
20 FROM
21     Sleep_Health.Person AS P
22 JOIN
23     Sleep_Health.Sleep_Details AS SM ON P.PersonID = SM.PersonID
24 JOIN
25     Sleep_Health.Physical_Activity AS PA ON P.PersonID = PA.PersonID
26 JOIN
27     Sleep_Health.Metrics AS M ON P.PersonID = M.PersonID;
```

Row	PersonID	Gender	Age	Occupation	SleepDuration	QualityofSleep	PhysicalActivity	StressLevelCategory
1	18	Male	29	Doctor	6.0	6	30	High Stress
2	14	Male	29	Doctor	6.0	6	30	High Stress
3	16	Male	29	Doctor	6.0	6	30	High Stress
4	15	Male	29	Doctor	6.0	6	30	High Stress
5	62	Male	32	Doctor	6.0	6	30	High Stress
6	58	Male	32	Doctor	6.0	6	30	High Stress
7	55	Male	32	Doctor	6.0	6	30	High Stress
8	53	Male	32	Doctor	6.0	6	30	High Stress
9	59	Male	32	Doctor	6.0	6	30	High Stress
10	56	Male	32	Doctor	6.0	6	30	High Stress
11	61	Male	32	Doctor	6.0	6	30	High Stress
12	77	Male	33	Doctor	6.0	6	30	High Stress
13	80	Male	33	Doctor	6.0	6	30	High Stress
14	76	Male	33	Doctor	6.0	6	30	High Stress
15	68	Male	33	Doctor	6.0	6	30	High Stress
16	75	Male	33	Doctor	6.0	6	30	High Stress
17	78	Male	33	Doctor	6.0	6	30	High Stress
18	79	Male	33	Doctor	6.0	6	30	High Stress
19	269	Female	49	Nurse	6.0	6	90	High Stress

Job history

PERSONAL HISTORY

PROJECT HISTORY

Filter Enter property name or value

Job ID	Creation time	Owner	Type	Insights ?	Session ID	Actions
bquxjob_568da6fa_18f1df12406	April 26, 2024 10:04 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_3e63d64c_18f1deeb655	April 26, 2024 10:02 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_658f2084_18f1dede396	April 26, 2024 10:01 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_1418bbd7_18f1deb823b	April 26, 2024 9:58 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_71324b9_18f1deab931	April 26, 2024 9:57 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_6aa6660a_18f1de9d6a9	April 26, 2024 9:56 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_7152ab24_18f1de91f40	April 26, 2024 9:56 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_57d62796_18f1de7d45e	April 26, 2024 9:54 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_2fe83474_18f1de358ec	April 26, 2024 9:49 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_340195ed_18f1de22944	April 26, 2024 9:48 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_4802a4dd_18f1de11754	April 26, 2024 9:47 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_6d82ac0a_18f1ddf834	April 26, 2024 9:45 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_453851fe_18f1dde242b	April 26, 2024 9:44 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_62b7c45d_18f1ddc8277	April 26, 2024 9:42 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_5f62f6bf_18f1ddb6df9	April 26, 2024 9:41 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_53252950_18f1ddb3f4c	April 26, 2024 9:41 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_4a170b15_18f1dd92dce	April 26, 2024 9:38 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_21360582_18f1dd2f386	April 26, 2024 9:31 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_5b0d5180_18f1dd295fa	April 26, 2024 9:31 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_23220022_18f1dcb9e92	April 26, 2024 9:23 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_4bfdbfdb_18f1dbdb8f7	April 26, 2024 9:08 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_3b6d5d67_18f1db91d70	April 26, 2024 9:03 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_79a5dae5_18f1db87d97	April 26, 2024 9:03 PM	manjot.singh@sjssu.edu	LOAD	-	-	⋮
bquxjob_4f86521a_18f1db807a7	April 26, 2024 9:02 PM	manjot.singh@sjssu.edu	LOAD	-	-	⋮
bquxjob_7bf7663d_18f1db4e9af	April 26, 2024 8:59 PM	manjot.singh@sjssu.edu	QUERY	-	-	⋮
bquxjob_33f6cb6_18f1dad3556	April 26, 2024 8:50 PM	manjot.singh@sjssu.edu	LOAD	-	-	⋮
bquxjob_281c4455_18f1dac8601	April 26, 2024 8:49 PM	manjot.singh@sjssu.edu	LOAD	-	-	⋮

Includes DB Connectivity / API calls

Python:

C:\> Users > manjo > OneDrive > Documents > Homework > DATA 225 > MySQL connection - Updated.py > ...

```
1 import mysql.connector
2 import pandas as pd
3
4 # Database Credentials
5 host = "127.0.0.1"
6 user = "root"
7 password = "Data225DB"
8
9 # Connect to MySQL server
10 try:
11     connection = mysql.connector.connect(host=host, user=user, password=password)
12     print("Connected to MySQL server successfully!")
13 except mysql.connector.Error as err:
14     print(f"Error connecting to MySQL server: {err}")
15     exit()
16
17 cursor = connection.cursor()
18
19 # Database name
20 database_name = "Sleep"
21
22 # Checking if database exists
23 try:
24     cursor.execute(f"SHOW DATABASES LIKE '{database_name}'")
25     database_exists = cursor.fetchone() is not None
26 except mysql.connector.Error as err:
27     print(f"Error checking for database: {err}")
28     database_exists = False
29
30 if not database_exists:
31     try:
32         cursor.execute(f"CREATE DATABASE {database_name}")
33         print(f"Database '{database_name}' created successfully!")
34     except mysql.connector.Error as err:
35         print(f"Error creating database: {err}")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\manjo> & C:/Users/manjo/anaconda3/envs/myenv/python.exe "c:/Users/manjo/OneDrive/Documents/Homework/DATA 225/MySQL connection - Updated.py"
Connected to MySQL server successfully!
Tables created successfully!
Fact table created successfully!
Data inserted into Person table successfully!
Data inserted into Sleep table successfully!
Data inserted into PhysicalActivity table successfully!
Data inserted into Metrics table successfully!
Data inserted into Fact table successfully!
All tables (dimension and fact) created successfully!
```

Used NOSQL

MongoDB:

MANJOT'S ORG - 2024-04-16 > TERM PROJECT

Project Access Manager

Manage access to this project for users, teams, and API keys.

Users

Teams

API Keys

Find a user

Display Name	Email Address	Project Role	Created	Last Login	
Charts User	charts+661e20b68c7c1d51e32ff1fa@mongodb.com	Project Charts Admin	04/16/24 - 12:16:33 AM		<div><div></div><div></div></div>
Chelsea Chantale Jaculina	chelseachantale.jaculina@sjsu.edu	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/16/24 - 12:12:01 AM	04/26/24 - 08:37:36 PM	<div><div></div><div></div></div>
Manjot Singh	manjot.singh@sjsu.edu	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/16/24 - 11:54:46 PM	04/26/24 - 07:21:49 PM	<div><div></div><div></div></div>
Sai Prasad Thalluri	saiprasad.kcs219@gmail.com	Project Owner, Project Data Access Admin, Project Read Only, Project Stream Processing Owner, Project Data Access Read Write, Project Search Index Editor, Project Data Access Read Only, Project Cluster Manager	04/16/24 - 12:05:28 AM	04/26/24 - 02:26:53 PM	<div><div></div><div></div></div>


```

1  [
2  {
3    $group: {
4      _id: {
5        AgeGroup: {
6          $switch: {
7            branches: [
8              { case: { $and: [{ $gte: ["$Age", 20] }, { $lt: ["$Age", 30] } ], then: "20-29" },
9                { case: { $and: [{ $gte: ["$Age", 30] }, { $lt: ["$Age", 40] } ], then: "30-39" },
10               { case: { $and: [{ $gte: ["$Age", 40] }, { $lt: ["$Age", 50] } ], then: "40-49" },
11               { case: { $gte: ["$Age", 50] }, then: "50+" }
12            ],
13            default: "Other"
14          }
15        },
16        SleepDisorder: "$Sleep_Disorder"
17      },
18      Count: { $sum: 1 }
19    }
20  ],
21  {
22    $project: {
23      _id: 0,
24      AgeGroup: "$_id.AgeGroup",
25      SleepDisorder: "$_id.SleepDisorder",
26      Count: 1
27    }
28  }
29 ]
30

```

PIPELINE OUTPUT

OUTPUT OPTIONS ▾

Sample of 10 documents

Count : 3
AgeGroup : "20-29"
SleepDisorder : "Insomnia"

Count : 9
AgeGroup : "30-39"
SleepDisorder : "Sleep Apnea"

Count : 6
AgeGroup : "30-39"
SleepDisorder : "Insomnia"

Count : 42
AgeGroup : "40-49"
SleepDisorder : "None"

Count : 12
AgeGroup : "20-29"
SleepDisorder : "None"

Count : 15
AgeGroup : "40-49"
SleepDisorder : "Sleep Apnea"

Count : 50
AgeGroup : "50+"
SleepDisorder : "Sleep Apnea"

