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Sub:- Data driven decision making

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Assignment-2

Task-1:-

● object:-
collect feedback about student satisfaction at your college.

● Method:- online form/paper survey.
Sample survey questions (10 questions total):

1) How satisfied are you with the overall learning environment of the college?
   - very satisfied/ satisfied/ Neutral/ Dissatisfied/ very dissatisfied.

2) How would you rate the quality of teaching?
   - excellent/ Good/ average/ poor.

3) How helpful are the teachers in solving your doubts? • very helpful/ helpful/ neutral/ not helpful.

4) Are you satisfied with the college infrastructure?
   - yes/ No/ partially

5) How would you rate the cleanliness & hygiene of the campus? • excellent/ Good/ fair/ poor

6) Are you satisfied with the internet & wi-fi facilities on campus? • yes/ No/ sometimes works

7) How well do you think your carriculum matches industry needs? • very well/ Moderately well/ Not well.

8) How satisfied are you with the extracarricular activities & club? • very satisfied/ Satisfied/ Neutral/ Dissatisfied.

9) Do you feel your feedback is considered by college authorities? • yes/ No/ Not sure

10) How satisfied are you with your college experience?
    - very satisfied/ satisfied/ Neutral/ Dissatisfied/ very dissatisfied.

Task-2

Student ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
S01	satisfied	Good	Helpful	yes	excellent	yes	very well	satisfied	yes	satisfied
S02	very satisfied	excellent	helpful	yes	Good	yes	moderately well	very satisfied	yes	very satisfied
S03	Neutral	Average	neutral	partially	fair	sometimes works	Not well	neutral	Not sure	neutral
S04	Dis-satisfied	Poor	Not helpful	No	poor	No	Not well	Dis satisfied	No	dissatisfied
S05	satisfied	Good	helpful	yes	Good	yes	Moderately well	satisfied	yes	satisfied
S06	very satisfied	excellent	helpful	yes	excellent	yes	very well	very satisfied	yes	very satisfied
S07	neutral	average	neutral	No	fair	sometimes	moderately	neutral	No	neutral
S08	satisfied	Good	helpful	yes	Good	yes	moderately well	satisfied	yes	satisfied
S09	Dis-satisfied	Poor	Not helpful	No	Poor	No	Not well	Dis-satisfied	No	dissatisfied
S10	very satisfied	excellent	very helpful	yes	excellent	yes	very well	very satisfied	yes	very satisfied

▨ Task 3 - Data Cleaning :-

● Identified Issues :-

1) Missing values in some responses (e.g., blank or "Not sure")
2) Duplicate entries (e.g., same student ID repeated)
3) Inconsistent formatting (e.g., "yes", "yes", "YES").

● Steps to fix :-

1) Missing data :- Replace blank/"Not" with "Neutral".
2) Duplicate entries :- Remove repeated rows using Excel's "Remove Duplicates" feature.
3) Formatting :- convert all text responses to a consistent format (e.g., proper case).
4) validation :- ensure each student ID is unique and all 10 questions are answered.

● cleaned Data result :-

Final dataset ready for analysis with uniform formatting & complete entries.

▨ Task - 4 - Ethical Consideration :-

Short note on Ethics in Data collection :- when collecting & handling personal data, it's important to follow ethical principles such as:

1) Informed consent :-
Respondents should be told why the data is being collected & how it will be used.

2) privacy protection :-
personal identifiers (name, roll number, contact info) should be kept confidential.

3) Data security :-
collected data should be stored safely and not shared with unauthorized persons.

4) Transparency :-

Respodents should have the right to know how their data contributes to research or improvement.

5) Avoid Misuse :-

Data should only be used for academic or research purposes, not for any discriminatory or harmful actions.