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BSCS-C301

Practice Task # 1: Data Preparation and Cleaning

This practice task focuses on transforming a messy, unorganized dataset into a clean and structured format ready for professional analysis. It involves fixing text inconsistencies—such as removing extra spaces and correcting capitalization—while separating combined data fields like "Department" and "State" into their own columns. The final goal is to handle missing values and format numbers so that accurate reports on revenue and profit can be generated.

	A	B	C	D	E	F	G	H	I	J
1	Date	Client	Contacts	Department	State	Payment	Revenue	Profit	Profit Margin	
2	30/05/2023	AMAZON.COM, INC. (DNAS:AMZN)	Bill Smith	Cloud Tech	Texas	Transfer	4,500.00	598.00	13.3%	
3	30/05/2023	TESLA, INC. (DNAS:TSLA)	Ken Singh	Strategy	New York	PayPal	3,800.00	1,045.00	27.5%	
4	30/05/2023	NETFLIX, INC. (DNAS:NFLX)	Harley Fritz	Strategy	New York	Others	3,712.50	1,009.00	27.2%	
5	30/05/2023	THE PROCTER & GAMBLE COMPANY (DNYS:PG)	Nyla Novak	Operations	Florida	Others	4,994.00	779.00	16.6%	
6	30/05/2023	THE GOLDMANSACHS GROUP, INC. (DNYS:GS)	David Rasmussen	Operations	Florida	Check	5,000.00	684.00	14.7%	
7	31/05/2023	JPMORGAN CHASE & CO. (DNYS:JPM)	Ivan Hiney	Cloud Tech	Texas	Transfer	6,100.00	544.00	9.9%	
8	31/05/2023	MORGAN STANLEY (DNYS:MS)	Jonha Ma	Cloud Tech	Texas	Transfer	4,625.00	670.00	14.5%	
9	31/05/2023	CITIGROUP INC. (DNYS:C)	Jordan Boone	Cloud Tech	Texas	Transfer	3,800.00	2,045.00	53.8%	
10	31/05/2023	BANK OF AMERICA CORPORATION (DNYS:BAC)	Kylee Townsend	Cloud Tech	Texas	Card	3,600.00	1,564.00	43.4%	
11	31/05/2023	WALMART INC. (DNYS:WMT)	Nora Rollins	Cloud Tech	Texas	Check	5,100.00	1,220.00	24.0%	
12	31/05/2023	TARGET CORPORATION (DNYS:TGT)	Brendan Wallace	Cloud Tech	Texas	Check	4,750.00	1,435.00	30.2%	
13	31/05/2023	COSTCO WHOLESALE CORPORATION (DNAS:COST)	Conor Wise	Operations	Florida	Transfer	6,000.00	998.00	17.3%	
14	31/05/2023	MCDONALD'S CORPORATION (DNYS:MCD)	Steven Michael	Big Data	California	Check	4,500.00	780.00	17.3%	
15	01/06/2023	EXXON MOBIL CORPORATION (DNYS:XOM)	Lucia Mckay	Big Data	California	Card	4,994.00	1,044.00	21.0%	
16	01/06/2023	VERIZON COMMUNICATIONS INC. (DNYS:VZ)	Jose Roach	Big Data	California	Transfer	3,712.50	1,222.00	33.0%	
17	01/06/2023	THE HOME DEPOT, INC. (DNYS:HD)	Franklin Wright	Big Data	California	Transfer	4,950.00	1,065.00	22.0%	
18	01/06/2023	CISCO SYSTEMS, INC. (DNAS:CSCO)	Alia Thornton	Operations	Florida	Transfer	4,750.00	810.00	17.1%	
19	01/06/2023	CHEVRON CORPORATION (DNYS:CVX)	Denzel Flores	Operations	Florida	Transfer	7,320.00	933.00	13.0%	
20	01/06/2023	COSTCO WHOLESALE CORPORATION (DNAS:COST)	Conor Wise	Operations	Florida	Transfer	6,000.00	998.00	17.3%	
21	01/06/2023	MCDONALD'S CORPORATION (DNYS:MCD)	Steven Michael	Big Data	California	Check	4,500.00	780.00	17.3%	
22	01/06/2023	AT&T INTC	Bruno Cordova	Big Data	California	Transfer	5,087.50	955.00	13.0%	
23	01/06/2023	INTEL CORPORATION (DNAS:INTC)	Jaylynn Napp	Big Data	California	Transfer	4,500.00	722.00	16.0%	
24	01/06/2023	GENERAL MOTORS COMPANY (DNYS:GM)	Bruce Rich	Big Data	California	Card	4,250.00	901.00	21.2%	
25	02/06/2023	MICROSOFT CORPORATION (DNAS:MSFT)	Arturo Moore	Big Data	California	PayPal	5,250.00	1,349.00	26.0%	
26	02/06/2023	COMCAST CORPORATION (DNAS:CMCSA)	Bryce Carpenter	Strategy	New York	PayPal	6,500.00	1,288.00	20.0%	
27	02/06/2023	DELL TECHNOLOGIES INC. (DNYS:DELL)	Jaidyn Andersen	Strategy	New York	PayPal	7,500.00	1,664.00	22.2%	
28	02/06/2023	JOHNSON & JOHNSON (DNYS:JNJ)	Mark Walm	Strategy	New York	Transfer	5,500.00	1,320.00	24.0%	
29	02/06/2023	FEDEX CORPORATION (DNYS:FDX)	HARRY LEE	Strategy	New York	Transfer	4,625.00	1,001.00	22.0%	
30	02/06/2023	GENERAL ELECTRIC (DNYS:GE)	Josh Johnson	Strategy	New York	Transfer	4,500.00	960.00	21.0%	
31	02/06/2023	LOCKHEED MARTIN CORPORATION (DNYS:LMT)	Mik Naam	Strategy	New York	Card	5,400.00	540.00	10.0%	

	A	B	C	D
1	name	client_id	contact_person	
2	AMAZON.COM, INC.	C-101	Bill Smith	
3	AT&T INC.	C-119	Bruno Cordova	
4	BANK OF AMERICA CORPORATION	C-109	Kylee Townsend	
5	CHEVRON CORPORATION	C-118	Denzel Flores	
6	CISCO SYSTEMS, INC.	C-117	Alia Thornton	
7	CITIGROUP INC.	C-108	Jordan Boone	
8	COMCAST CORPORATION	C-123	Bryce Carpenter	
9	COSTCO WHOLESALE CORPORATION	C-112	Conor Wise	
10	DELL TECHNOLOGIES INC.	C-124	Jaidyn Andersen	
11	EXXON MOBIL CORPORATION	C-114	Lucia Mckay	
12	FEDEX CORPORATION	C-126	Harry Lee	
13	GENERAL ELECTRIC COMPANY	C-127	Josh Johnson	
14	GENERAL MOTORS COMPANY	C-121	Bruce Rich	
15	INTEL CORPORATION	C-120	Jaylynn Napp	
16	JOHNSON & JOHNSON	C-125	Mark Walm	
17	JPMORGAN CHASE & CO.	C-106	Ivan Hiney	
18	LOCKHEED MARTIN CORPORATION	C-128	Mik Naam	
19	MCDONALD'S CORPORATION	C-113	Steven Michael	
20	MICROSOFT CORPORATION	C-122	Arturo Moore	
21	MORGAN STANLEY	C-107	Jonha Ma	
22	NETFLIX, INC.	C-103	Harley Fritz	
23	TARGET CORPORATION	C-111	Brendan Wallace	
24	TESLA, INC.	C-102	Ken Singh	
25	THE GOLDMAN SACHS GROUP, INC.	C-105	David Rasmussen	
26	THE HOME DEPOT, INC.	C-116	Franklin Wrigt	
27	THE PROCTER & GAMBLE COMPANY	C-104	Nyla Novak	
28	VERIZON COMMUNICATIONS INC.	C-115	Jose Roach	
29	WALMART INC.	C-110	Nora Rollins	
30				

	A	B
1	payment_mode	payment_id
2	Card	P-101
3	Check	P-102
4	Others	P-103
5	PayPal	P-104
6	Transfer	P-105
7		

	A	B
1	state_name	state_id
2	California	S-101
3	Florida	S-102
4	New York	S-103
5	Texas	S-104
6		

	A	B
1	name	department_id
2	Big Data	D-101
3	Cloud Tech	D-102
4	Operations	D-103
5	Strategy	D-104
6		

The dashboard displays the following data:

state_name	Sum of revenue	Average of profit
California	\$37,244.00	\$967.25
Florida	\$28,064.00	\$840.80
New York	\$41,537.50	\$1,103.38
Texas	\$32,475.00	\$1,153.71
Grand Total	\$139,320.50	\$1,030.18

Client	Revenue
DELL TECHNOLOGIES INC.	\$7,500.00
CHEVRON CORPORATION	\$7,320.00
COMCAST CORPORATION	\$6,500.00
JPMORGAN CHASE & CO.	\$6,100.00
COSTCO WHOLESALE CORPORATION	\$6,000.00

Department	Sum of revenue	Average of profit
New York	\$41,537.50	\$1,103.38
Strategy	\$41,537.50	\$1,103.38
California	\$37,244.00	\$967.25
Big Data	\$37,244.00	\$967.25
Texas	\$32,475.00	\$1,153.71
Cloud Tech	\$32,475.00	\$1,153.71
Florida	\$28,064.00	\$840.80
Operations	\$28,064.00	\$840.80
Grand Total	\$139,320.50	\$1,030.18

	A	B	C	D	E	F	G	H	I	J	K
1	trans_id	date	client_id	department	state_id	payment_id	revenue	profit	profit_marg		
2	T-101	30/05/2023	C-101	D-102	S-104	P-105	\$4,500.00	\$598.00	13.29%		
3	T-102	30/05/2023	C-102	D-104	S-103	P-104	\$3,800.00	\$1,045.00	27.50%		
4	T-103	30/05/2023	C-103	D-104	S-103	P-103	\$3,712.50	\$1,009.00	27.18%		
5	T-104	30/05/2023	C-104	D-103	S-102	P-103	\$4,994.00	\$779.00	15.60%		
6	T-105	30/05/2023	C-105	D-103	S-102	P-102	\$5,000.00	\$684.00	13.68%		
7	T-106	31/05/2023	C-106	D-102	S-104	P-105	\$6,100.00	\$544.00	8.92%		
8	T-107	31/05/2023	C-107	D-102	S-104	P-105	\$4,625.00	\$670.00	14.49%		
9	T-108	31/05/2023	C-108	D-102	S-104	P-105	\$3,800.00	\$2,045.00	53.82%		
10	T-109	31/05/2023	C-109	D-102	S-104	P-101	\$3,600.00	\$1,564.00	43.44%		
11	T-110	31/05/2023	C-110	D-102	S-104	P-102	\$5,100.00	\$1,220.00	23.92%		
12	T-111	31/05/2023	C-111	D-102	S-104	P-102	\$4,750.00	\$1,435.00	30.21%		
13	T-112	31/05/2023	C-112	D-103	S-102	P-105	\$6,000.00	\$998.00	16.63%		
14	T-113	31/05/2023	C-113	D-101	S-101	P-102	\$4,500.00	\$780.00	17.33%		
15	T-114	01/06/2023	C-114	D-101	S-101	P-101	\$4,994.00	\$1,044.00	20.91%		
16	T-115	01/06/2023	C-115	D-101	S-101	P-105	\$3,712.50	\$1,222.00	32.92%		
17	T-116	01/06/2023	C-116	D-101	S-101	P-105	\$4,950.00	\$1,065.00	21.52%		
18	T-117	01/06/2023	C-117	D-103	S-102	P-105	\$4,750.00	\$810.00	17.05%		
19	T-118	01/06/2023	C-118	D-103	S-102	P-105	\$7,320.00	\$933.00	12.75%		
20	T-119	01/06/2023	C-119	D-101	S-101	P-105	\$5,087.50	\$655.00	12.87%		
21	T-120	01/06/2023	C-120	D-101	S-101	P-105	\$4,500.00	\$722.00	16.04%		
22	T-121	01/06/2023	C-121	D-101	S-101	P-101	\$4,250.00	\$901.00	21.20%		
23	T-122	02/06/2023	C-122	D-101	S-101	P-104	\$5,250.00	\$1,349.00	25.70%		
24	T-123	02/06/2023	C-123	D-104	S-103	P-104	\$6,500.00	\$1,288.00	19.82%		
25	T-124	02/06/2023	C-124	D-104	S-103	P-104	\$7,500.00	\$1,664.00	22.19%		
26	T-125	02/06/2023	C-125	D-104	S-103	P-105	\$5,500.00	\$1,320.00	24.00%		
27	T-126	02/06/2023	C-126	D-104	S-103	P-105	\$4,625.00	\$1,001.00	21.64%		
28	T-127	02/06/2023	C-127	D-104	S-103	P-105	\$4,500.00	\$960.00	21.33%		
29	T-128	02/06/2023	C-128	D-104	S-103	P-101	\$5,400.00	\$540.00	10.00%		
30	T-129	02/06/2023	C-112	D-105	S-104	P-102	\$5,401.00	\$500.00	9.26%		
31											
32											
33											
34											