LICENSE MANAGER DATABASE - ALL DATA

=== DATA TYPES & STRUCTURE ===

TABLE: LICENSES

Column N	Data Type	Constraint	Description
License_Ke	VARCHAR(	PRIMARY H	Unique license identifier
Program_	VARCHAR(	NOT NULL	Name of the software program
Service_N	VARCHAR(	NOT NULL	Executable/service file name
Monthly_C	DECIMAL(:	NOT NULL	Monthly subscription cost in dollars
Total_Seat	INT	NOT NULL	Total number of users allowed per license
Start_Date	DATE	NOT NULL	License activation/start date
End_Date	DATE	NULL	License expiration date (NULL = perpetual/no expiration)

TABLE: USAGE_RECORDS

Column N	Data Type	Constraint	Description
Employee	VARCHAR(	NOT NULL	Full name of the employee
Employee_	VARCHAR(	NOT NULL	Unique employee identifier
Departmel	VARCHAR(	NOT NULL	Employee's department
Program_	VARCHAR(	NOT NULL	Name of software being used
Service_N	VARCHAR(	NOT NULL	Executable/service file name
PID	INT	NOT NULL	Process ID of the running software
License_Ke	VARCHAR(	FOREIGN H	References Licenses(License_Key)
Status	VARCHAR(	NOT NULL	Process status: Running, Stopped, or Idle
Start_Time	DATETIME	NOT NULL	Timestamp when the process started
End_Time	DATETIME	NULL	Timestamp when process ended (NULL if still running)
Monthly_C	DECIMAL(:	NOT NULL	Monthly cost of the license being used

DATA TYPE EXPLANATIONS

Data Type	Format/Ra	Example	Usage
VARCHAR(	Variable-le	VARCHAR(	For text fields like names, codes
INT	Whole nur	2072	For IDs, counts, process IDs
DECIMAL(:	Fixed decir	12.99, 210	For money/currency values
DATE	Format: Y	2024-03-1	For dates without time
DATETIME	Format: Y	2025-09-2	For timestamps with date and time

KEY RELATIONSHIPS

Relationsh	Type	Description
Licenses →	One-to-Ma	One license can have many usage records
License_Ke	Links the t	Usage_Records.License_Key references Licenses.License_Key

=== LICENSES TABLE ===

License Ke	Program N	Service N	Monthly C	Total Seat:	Start Date	End Date

Key	Product	Executable	Price	Qty	Date1	Date2
1D1N-A2Y	Microsoft	winword.e	12.99	5	2024-03-1	2025-03-15
ARAW-YI7I	Google Ch	chrome.ex	0	10	2024-01-10	
5YXS-COKI	IntelliJ IDE	idea64.exe	16.9	5	2024-07-2	2025-07-22
KP6H-V3BI	Visual Stuc	devenv.ex	45	3	2024-05-0	2025-05-08
U1AV-M7L	Visual Stuc	devenv.ex	45	3	2024-11-0	2025-11-03
O144-GZEI	Adobe InD	indesign.e	22.99	5	2024-02-2	2025-02-28
XJZB-YOVC	AutoCAD	acad.exe	210	3	2024-06-1	2025-06-12
JMW4-TUA	Microsoft	excel.exe	12.99	5	2024-09-0	2025-09-05
ITWY-X7E	Mozilla Fir	firefox.exe	0	10	2024-04-20	
5D3L-XE4Y	Adobe InD	indesign.e	22.99	5	2024-08-1	2025-08-17
K9F4-WIRZ	Slack	slack.exe	8.75	3	2024-10-2	2025-10-25
N1X3-HMC	Mozilla Fir	firefox.exe	0	10	2024-03-08	
5OQ4-CFX	Zoom	zoom.exe	14.99	5	2024-12-1	2025-12-14
DWI2-4YC	Notepad+	notepad++	0	10	2024-02-01	
2NR1-18S	Microsoft	excel.exe	12.99	5	2024-04-3	2025-04-30
SRY6-W57	Adobe Illu	illustrator.	22.99	2	2024-07-1	2025-07-19
C93K-FFH6	AutoCAD	acad.exe	210	3	2024-01-2	2025-01-25
BBQ1-2M1	Zoom	zoom.exe	14.99	5	2024-05-1	2025-05-16
5LVX-JWZ8	Adobe InD	indesign.e	22.99	5	2024-09-2	2025-09-27
BSE4-E4IU	IntelliJ IDE	idea64.exe	16.9	5	2024-11-1	2025-11-11
QVXS-EH1	Notepad+	notepad++	0	10	2024-06-07	
FP8J-IZJX-	IntelliJ IDE	idea64.exe	16.9	5	2024-03-2	2025-03-22
ESW5-L5L1	Adobe Pho	photoshop	22.99	3	2024-08-0	2025-08-09
FTBC-DEBZ	Microsoft	teams.exe	5.25	5	2024-10-1	2025-10-18
FFMB-QH9	Adobe InD	indesign.e	22.99	5	2024-02-1	2025-02-14
YPC2-B4UI	Microsoft	winword.e	12.99	5	2024-12-0	2025-12-05
GRCA-UHJ	IntelliJ IDE	idea64.exe	16.9	5	2024-04-1	2025-04-11
9JFW-0CD	Zoom	zoom.exe	14.99	5	2024-07-2	2025-07-28
6CEJ-YRD4	Zoom	zoom.exe	14.99	5	2024-01-1	2025-01-19
6INR-UVU	Adobe Pho	photoshop	22.99	3	2024-09-1	2025-09-13
WWUH-AC	Microsoft	teams.exe	5.25	5	2024-11-2	2025-11-26
9K2A-SV4I	Microsoft	excel.exe	12.99	5	2024-03-0	2025-03-04
LYW2-0EL	Adobe Pho	photoshop	22.99	3	2024-06-2	2025-06-21
9YQ7-KCN	Slack	slack.exe	8.75	3	2024-08-3	2025-08-30
WQY6-6AF	Microsoft	powerpnt.	12.99	3	2024-05-2	2025-05-23
HGGK-LR5	Mozilla Fir	firefox.exe	0	10	2024-07-06	
G4I6-UV04	Microsoft	teams.exe	5.25	5	2024-10-0	2025-10-02
17ZE-6QM	Mozilla Fir	firefox.exe	0	10	2024-12-20	
R0H8-KRYI	Microsoft	winword.e	12.99	5	2024-02-0	2025-02-09
90VG-PAXI	Mozilla Fir	firefox.exe	0	10	2024-04-17	
T5T4-WZG	Visual Stuc	devenv.ex	45	3	2024-09-0	2025-09-08
1MOE-URF	Adobe InD	indesign.e	22.99	5	2024-11-1	2025-11-15
3MTM-49\	Mozilla Fir	firefox.exe	0	10	2024-01-29	

97UP-R1W	AutoCAD	acad.exe	210	3	2024-06-1	2025-06-18
FCLM-MW	Notepad+	notepad++	0	10	2024-08-24	
JQ4C-F3OL	Zoom	zoom.exe	14.99	5	2024-03-1	2025-03-12
075D-5P2F	Notepad+	notepad++	0	10	2024-05-07	
2JLV-EIQG	Microsoft	winword.e	12.99	5	2024-10-2	2025-10-29

=== USAGE RECORDS TABLE ===

Employee	Employee	Departmer	Program N	Service N	PID	License Ke	Status	Start Time
Oscar Mar	EMP5019	Marketing	Word	winword.e	2072	1D1N-A2Y	Running	2025-09-2
Fiona Wan	EMP9688	HR	Chrome	chrome.ex	6957	ARAW-YI7	Running	2025-09-1
Kevin Bro	EMP7048	Design	IntelliJ IDE	idea64.exe	9423	5YXS-COK	Stopped	2025-09-1
Zoe Adam	EMP2084	Sales	Visual Stuc	devenv.ex	4553	KP6H-V3BI	Idle	2025-09-1
Yuki Tanak	EMP3632	Marketing	Visual Stuc	devenv.ex	4567	U1AV-M7LI	Idle	2025-09-1
George Ch	EMP1263	Design	InDesign	indesign.e	9881	O144-GZE	Running	2025-09-2
Nancy Tay	EMP3209	Engineerin	AutoCAD	acad.exe	3337	XJZB-YOVC	Running	2025-09-1
Victor Cha	EMP6071	Engineerin	Excel	excel.exe	2417	JMW4-TU/	Idle	2025-09-1
Diana Pere	EMP7426	HR	Firefox	firefox.exe	3172	ITWY-X7E	Running	2025-09-1
Paula And	EMP1031	Marketing	InDesign	indesign.e	1931	5D3L-XE4Y	Running	2025-09-1
Alice Smith	EMP4326	Engineerin	Slack	slack.exe	2724	K9F4-WIR2	Idle	2025-09-2
Drew Philli	EMP9067	HR	Firefox	firefox.exe	9238	N1X3-HM(	Running	2025-09-1
Nancy Tay	EMP8881	Design	Zoom	zoom.exe	8566	5OQ4-CFX	Stopped	2025-09-2
Alice Smith	EMP6937	Design	Notepad+	notepad++	5207	DWI2-4YC	Idle	2025-09-2
Uma Patel	EMP7549	Engineerin	Excel	excel.exe	2361	2NR1-18SC	Stopped	2025-09-2
Rachel Wh	EMP7305	Engineerin	Illustrator	illustrator.	7596	SRY6-W57	Stopped	2025-09-1
Julia Kim	EMP2488	Engineerin	AutoCAD	acad.exe	5241	C93K-FFHE	Stopped	2025-09-1
Alex Morg	EMP2182	HR	Zoom	zoom.exe	3558	BBQ1-2MT	Stopped	2025-09-1
Rachel Wh	EMP7100	HR	InDesign	indesign.e	7800	5LVX-JWZ8	Running	2025-09-1
Julia Kim	EMP9179	Sales	IntelliJ IDE	idea64.exe	8327	BSE4-E4IU	Idle	2025-09-1
Alex Morg	EMP1753	Engineerin	Word	winword.e	2990	2JLV-EIQG	Stopped	2025-09-2
Ethan Lee	EMP8529	HR	Notepad+	notepad++	6112	QVXS-EH1	Stopped	2025-09-2
Uma Patel	EMP9499	Sales	IntelliJ IDE	idea64.exe	8607	FP8J-IZJX-	Stopped	2025-09-1
Hannah M	EMP3427	Marketing	Photoshop	photoshop	8271	ESW5-L5L	Stopped	2025-09-2
Uma Patel	EMP5942	Sales	Teams	teams.exe	3484	FTBC-DEB2	Idle	2025-09-2
Fiona Wan	EMP1757	Marketing	InDesign	indesign.e	1695	FFMB-QHS	Running	2025-09-2
Yuki Tanak	EMP4877	HR	Word	winword.e	2225	YPC2-B4U	Running	2025-09-1
Mike Wilsc	EMP1909	Engineerin	IntelliJ IDE	idea64.exe	1278	GRCA-UHJ.	Idle	2025-09-2
Diana Pere	EMP9287	Marketing	Zoom	zoom.exe	9051	9JFW-0CD	Stopped	2025-09-1
Bob Johns	EMP8036	HR	Zoom	zoom.exe	3633	6CEJ-YRD4	Running	2025-09-1
Yuki Tanak	EMP4600	Design	Photoshop	photoshop	9038	6INR-UVU	Stopped	2025-09-2
Yuki Tanak	EMP4070	Design	Teams	teams.exe	6366	WWUH-A(	Running	2025-09-1
Alice Smith	EMP1246	Design	Excel	excel.exe	7348	9K2A-SV4I	Stopped	2025-09-1
Ian Rodrig	EMP1342	Design	Photoshop	photoshop	4692	LYW2-0EL\	Stopped	2025-09-1

Name	Emp ID	Department	Application	Process	PID	Key	Status	Date
Lisa Garcia	EMP7983	Marketing	Slack	slack.exe	7735	9YQ7-KCN	Running	2025-09-1
Xavier Gre	EMP9608	Design	PowerPoir	powerpnt.	8370	WQY6-6AF	Idle	2025-09-2
Quinn Tho	EMP9192	HR	Firefox	firefox.exe	8407	HGGK-LR5	Idle	2025-09-1
Steve Jack	EMP7922	Marketing	Teams	teams.exe	5014	G4I6-UV04	Stopped	2025-09-1
Hannah M	EMP5984	Marketing	Firefox	firefox.exe	2363	17ZE-6QM	Stopped	2025-09-1
Nancy Tay	EMP6089	Marketing	Word	winword.e	7034	R0H8-KRYF	Running	2025-09-1
Nancy Tay	EMP6321	Marketing	Firefox	firefox.exe	7467	90VG-PAXI	Running	2025-09-1
Zoe Adam:	EMP7534	Design	Visual Stuc	devenv.ex	2536	T5T4-WZG	Running	2025-09-2
Paula And	EMP3142	Marketing	InDesign	indesign.e	2043	1MOE-URF	Stopped	2025-09-1
Xavier Gre	EMP8881	HR	Firefox	firefox.exe	1498	3MTM-49\	Idle	2025-09-1
Rachel Wh	EMP9931	Engineerin	AutoCAD	acad.exe	8530	97UP-R1W	Idle	2025-09-2
Casey Wri	EMP2391	Engineerin	Notepad+	notepad++	9019	FCLM-MW	Idle	2025-09-1
Victor Cha	EMP2061	Marketing	Zoom	zoom.exe	3440	JQ4C-F3OL	Stopped	2025-09-1
Steve Jack	EMP7076	Sales	Notepad+	notepad++	1759	075D-5P2F	Running	2025-09-2

End Time	Monthly Cost
	12.99
	0
2025-09-1:	16.9
2025-09-1:	45
2025-09-1:	45
	22.99
	210
2025-09-1'	12.99
	0
	22.99
2025-09-2(	8.75
	0
2025-09-2(	14.99
2025-09-2:	0
2025-09-2:	12.99
2025-09-1(	22.99
2025-09-2(	210
2025-09-1(	14.99
	22.99
2025-09-1!	16.9
2025-09-2(	12.99
2025-09-2(	0
2025-09-1:	16.9
2025-09-2:	22.99
2025-09-2:	5.25
	22.99
	12.99
2025-09-2(	16.9
2025-09-1'	14.99
	14.99
2025-09-2:	22.99
	5.25
2025-09-1:	12.99
2025-09-1'	22.99

	8.75
2025-09-2	12.99
2025-09-1	0
2025-09-1	5.25
2025-09-1	0
	12.99
	0
	45
2025-09-1	22.99
2025-09-1	0
2025-09-2	210
2025-09-1	0
2025-09-1	14.99
	0