

Data Dictionary Template

- Read section **3-5 The Data Dictionary and the System Catalog** in the textbook to familiarize yourself about the use of a data dictionary.
- Use this template to develop a data dictionary for your DB. Here are some details about what to capture:
 - **CONTENT:** what is this attribute? What data is it capturing?
 - **DOMAIN/RANGE:** what are the possible valid values that could go into this column?
 - **FORMAT:** Should the values of this attribute follow a specific format? Can you specify a pattern?
 - **REQUIRED:** should the attribute have a value for the record to be a valid record? Can the attribute be null?
 - **UNIQUE:** should the value of the attribute be unique across all instances within this table? **Note:** sometimes a combination of multiple attributes should be unique. In that case feel free to mention.
 - **PK:** Is this attribute part of the primary key of the table?
 - **FK:** is this attribute a foreign key?

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	DOMAIN / RANGE	REQUIRED	UNIQUE	PK OR FK
EMPLOYEE	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	PK
	EMP_FNAME	Employee first name	VARCHAR(35)	XXXXXXXXXX	N/A	Y	N	
	EMP_LNAME	Employee last name	VARCHAR(35)	XXXXXXXXXX	N/A	Y	N	
	EMP_ADDRESS	Employee address	VARCHAR(40)	XXXXXXXXXX	N/A	Y	N	
	EMP_DOB	Employee date of birth	DATE	YYYY-MM-DD	N/A	Y	Y	
	EMP_HIRE_DATE	Date of employee hiring	DATE	YYYY-MM-DD	N/A	Y	N	
	EMP_TERM_DATE	Date of employment termination	DATE	YYYY-MM-DD	N/A	Y	N	
	EMP_DEPT_START_DATE	Employee start date at current department	DATE	YYYY-MM-DD	N/A	Y	N	
	EMP_LOCKER	Employee locker number	INT	###	000-999	Y	Y	
	EMP_PAY_RATE	Employee pay rate	DECIMAL(7, 2)	0.##	\$0.00-\$99999999.99	Y	N	

	EMP_VAC_ENTITLEMENT	Employee vacation entitlement	SMALLINT	##	00-99	Y	N	
	EMP_SICK_ENTITLEMENT	Employee sick leave entitlement	SMALLINT	##	00-99	Y	N	
	DEPT_ID	Current department ID	INT	#####	00000-99999	Y	Y	FK
	ROLE_ID	Employees role ID	INT	#####	00000-99999	Y	Y	FK
DEPARTMENT	DEPT_ID	Department ID	INT	#####	00000-99999	Y	Y	PK
	DEPT_HEAD	Department head Name	VARCHAR(20)	XXXXXXXXXX	N/A	Y	Y	
	DEPT_NAME	Department name	VARCHAR(20)	XXXXXXXXXX	N/A	Y	Y	
DEPT_HISTORY	DEPT_ID	Department ID	INT	#####	00000-99999	Y	Y	PK,FK
	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	PK,FK
	ROLE_ID	Role ID	INT	#####	00000-99999	Y	Y	PK,FK
	HIST_START_DATE	Historical start date at department	DATE	YYYY-MM-DD	N/A	Y	N	
	HIST_END_DATE	Historical end date at department	DATE	YYYY-MM-DD	N/A	Y	N	
EMPLOYEE_ROLE	ROLE_ID	Role ID	INT	#####	00000-99999	Y	Y	PK
	ROLE_TITLE	Employee role title	VARCHAR(20)	XXXXXXXXXX	“Shift manage”, ”Floor supervisor”, ”director”, “Slot attendance”, “Human resources”	Y	N	

	ROLE_DESC	Role description	VARCHAR(255)	XXXXXXXXXX	N/A	Y	N	
	DEPT_ID	Department ID	INT	#####	00000-99999	Y	Y	FK
ROLE_CERTIFICATION	ROLE_ID	Role ID	INT	#####	00000-99999	Y	Y	PK,FK
	CERT_ID	Certification ID	INT	#####	00000-99999	Y	Y	PK,FK
CERTIFICATION	CERT_ID	Certification ID	INT	#####	00000-99999	Y	Y	PK
	CERT_NAME	Certification Name	VARCHAR(25)	XXXXXXXXXX	“Shift manage cert”, ”Floor supervisor cert”, ”Director cert”, “Slot attendance cert”, “Human resources cert”	Y	N	
	CERT_VALID_FOR	Certification valid until	DATE	YYYY-MM-DD	N/A	Y	N	
	CERT_ISSUED_BY	Certification is issued by	VARCHAR(25)	XXXXXXXXXX	N/A	Y	N	
TRAINING_SESSION	SESSION_ID	Session ID	INT	#####	00000-99999	Y	Y	PK
	SESSION_DATE	Date of training	DATE	YYYY-MM-DD	N/A	Y	N	
	CERT_ID	Certification ID	INT	#####	00000-99999	Y	Y	FK
	SKILL_ID	Skill ID	INT	#####	00000-99999	Y	Y	FK
TRAINER_ATTENDANCE	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	PK,FK
	SESSION_ID	Session ID	INT	#####	00000-99999	Y	Y	PK,FK

	ATTEN_STATUS	Attendance status	VARCHAR(25)	XXXXXXXXXX	“YES”(attended, “NO”(did not attend)	Y	N	
TRAINING_ATTENDANCE	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	PK,FK
	SESSION_ID	Session ID	INT	#####	00000-99999	Y	Y	PK,FK
	TR_ATTEN_STATUS	Training attendance status	VARCHAR(25)	XXXXXXXXXX	“YES”(attended, “NO”(did not attend)	Y	N	
SKILL	SKILL_ID	Skill ID	INT	#####	00000-99999	Y	Y	PK
	SKILL_NAME	Skill name	VARCHAR(25)	XXXXXXXXXX	“Shift manage”, “Floor supervisor”, “Director”, “Slot attendance”, “Human resources”	Y	N	
SECTION_SKILL	SKILL_ID	Skill ID	INT	#####	00000-99999	Y	Y	PK,FK
	SEC_ID	Section ID	INT	#####	00000-99999	Y	Y	PK,FK
SECTION	SEC_ID	Section ID	INT	#####	00000-99999	Y	Y	PK
	SEC_NAME	Section name	VARCHAR(25)	XXXXXXXXXX	“North”, “South”, “East”, “West”	Y	N	
S_SHIFT	SHIFT_ID	Shift ID number	INT	#####	00000-99999	Y	Y	PK
	SHIFT_TYPE	Shift type	VARCHAR(25)	XXXXXXXXXX	“S”(slot), “B”(breaker)	Y	N	
	SHIFT_START	Shift start date/time	SMALLDATETIME	YYYY-MM-DD hh:mm:ss	N/A	Y	N	
	SHIFT_END	Shift end date/time	SMALLDATETIME	YYYY-MM-DD hh:mm:ss	N/A	Y	N	

	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	FK
	SEC_ID	Section ID	INT	#####	00000-99999	Y	Y	FK
	SCH_ID	Schedule ID	INT	#####	00000-99999	Y	Y	FK
SHIFT_INVENTORY	SHIFT_ID	Shift ID	INT	#####	00000-99999	Y	Y	PK,FK
	INV_ID	Inventory ID	INT	#####	00000-99999	Y	Y	PK,FK
	QUANTITY	Quantity	INT	#####	00000-99999	Y	N	
	ASSIGN_DATE	Inventory assigned date	DATE	YYYY-MM-DD	N/A	Y	N	
	ASSIGN_STATUS	Inventory assigned status	VARCHAR(25)	XXXXXXXXXX	N/A	Y	N	
	EXP_DATE	Inventory expiration date	DATE	YYYY-MM-DD	N/A	Y	N	
INVENTORY	INV_ID	Inventory ID	INT	#####	00000-99999	Y	Y	PK
	INV_TITLE	Inventory title	VARCHAR(25)	XXXXXXXXXX	N/A	Y	N	
	INV_PRICE	Inventory price	NUMBER(9, 2)	0.##	\$0.00-\$00000000 00.00	Y	N	
	INV_QTY	Inventory quantity	INT	#####	00000-99999	Y	N	
SCHEDULE	SCH_ID	Schedule ID	INT	#####	00000-99999	Y	Y	PK
	EMP_ID	Employee Id	INT	#####	00000-99999	Y	Y	FK
	SCH_DATE	Scheduled date/time	SMALLDATETIME	YYYY-MM-DD hh:mm:ss	N/A	Y	N	

LEAVE	LEAVE_ID	Leave Id number	INT	#####	00000-99999	Y	Y	PK
	LEAVE_TYPE	Leave type	VARCHAR(25)	XXXXXXXXXX	“v”(vacation), “s”(sick)	Y	N	
	LEAVE_START	Leave start date	DATE	YYYY-MM-DD	N/A	Y	N	
	LEAVE_END	Leave end date	DATE	YYYY-MM-DD	N/A	Y	N	
	LEAVE_COMMENT	Leave comments	VARCHAR(255)	XXXXXXXXXX	N/A	N	N	
	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	FK
WRITTEN_WARNING	WW_ID	Written warning ID number	INT	#####	00000-99999	Y	Y	PK
	WW_DATE	Written warning date	DATE	YYYY-MM-DD	N/A	Y	N	
	WW_OFFENCE	Written warning offence	VARCHAR(25)	XXXXXXXXXX	N/A	Y	N	
	WW_LEVEL	Written warning level	SMALLINT	#	0-3	Y	N	
	WW_COMMENTS	Written warning comments	VARCHAR(255)	XXXXXXXXXX	N/A	N	N	
	EMP_ID	Employee ID	INT	#####	00000-99999	Y	Y	FK
FLOOR_SECTION	SEC_ID	Section ID	INT	#	(1-4)	Y	Y	PK
	SEC_NAME	Section Name	VARCHAR(25)	XXXX	“North”, “South”, “West”, “East”	Y	Y	

