Course Plan

No.	Topics	CO
L1 L2	**1.0** Create the tables with the following columns and constraints with given constraint names:	**CO1**

EMP

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPCODE	Number	3	Primary Key	PK_EMPNO
NAME	Varchar2	10		
QUALIFICATION	Varchar2	7	Valid Qualifications- BTECH, MTECH, MSC, MCA, PHD	VALID_QUALIF
PHONE	Number	10		
EMAIL	Varchar2	20	valid only if-contains **@digisol.com** as in email format	EMAIL_DOMAIN
DESIGNATION	Varchar2	20	Valid- DEVELOPER, PROJEACT LEADER, PROJECT MANAGER, TECHNICAL HEAD, PROJECT DIRECTOR, PRJOECT LEADER, CEO	VALID_DESIGNATION
SALARY	Number	7	97000 to 300000	SALARY_RANGE

SKILL

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
SKILLID	Char	3	Unique	UNQ_SKILLID
SKILLNAME	Varchar	20	Unique (not composite)	UNQ_SKILNAME

EMP_SKILL

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPNO	Number	3	References EMP	FK_EMPNO
SKILLID	Char	3	References SKILL with **ON DELETE CASCADE**	FK_SKILLID
SKILL_EXPERIENCE	Number	3	>0 (in terms of Months)	

WORK_EXP

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPCODE	Number	3	References EMP, Primary Key	Optional to give your own name
PRJID			References PRJ_DETAILS, Primary Key	
WORK_EXPERIENCE			>=0 NOT NULL	
CLIENTID			References CLIENT with **ON DELETE SET NULL**	
RATING			Valid values- A, B, C only	

CLIENT

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
CLIENTID	Char	3	Primary Key; start from 'C'	PK_CLIENTID; STRTSWITH_C
NAME	Varchar2	10		
PHONE	Char	14	Valid-if country code: +91-, +81-, + 31-, +48-, +44-; format +91-1234567890	PHONE_FORMAT

No.	Topics	CO

PRJ_DETAILS

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
PRJID	Char	3	Primary Key; start from 'P'	PK_PRJID
PRJ_NAME	Varchar2	10		
STRAT_DATE	Date			
END_DATE	Date		END_DATE > START_DATE	END_DATE_GARTER_START_DATE
ACTUAL_END_DATE			>=END_DATE	
LEAD_BY_EMPCODE	Number	3	References EMP	FK_LEAD_EMP
BUDGET_ALLOCATED	Number	10,1		
ACTUAL_BUDGET	Number	10,1		

FAMILY_DEPENDENTS

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPNO			Primary Key; References EMP	
DEP_NAME	Varchar	20	Primary Key	
RELATIONSHIP	varchar	16		
AGE	Number	3	1 to 130	VALID_AGE

MEDICAL_POLICY

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPNO			Primary Key; References EMP	Optional to give your own name
POLICYNO	Varchar2	6	Primary Key; starts from 'MED' e.g.: MED001	
PREMIUM	Number	5	>0	
POLICYDATE	Date			

PAY_CHECK

ATTRIBUTE	DATATYPE	SIZE	CONSTRAINTS	CONSTRAINTS NAME
EMPCODE			Primary Key; References EMP	
PAY_DATE	DATE		Primary Key	
REGULAR_INCREMENT	Number	4	2000/3000/5000/7000/9000	VALID_REGU_INCENTIVE
PERFORMNCE_INCENTIVE	Number	5		
DA	Number	7		
PF	Number	6		
OTHER_INCENTIVES	Number	4		
ADVANCE_TAX	Number	5		

2.1 Add column REPORTS_TO to EMP table with Foreign Key constraint refereeing to EMPCODE and constraint name -FK_REPORTS_TO_EMPCODE.

2.2 Set a constraint on SKILLID column belonging to SKILL table- every column value starts with letter 'S'.

2.3 Add primary key constraint on EMPNO, SKILLID columns belonging to EMP_SKILL table having constraint name- PK_EMPNO_SKILLID.

2.4 Set Unique constraint on PRJ_NAME belonging to PRJ_DETAILS table with constraint name UNQ_PRJ_NAME.