DATABASE MANAGEMENT SYSTEM MINGGU 4 – REVIEW DEFINING DATA DEFINITION LANGUAGE (DDL)

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Exercise 1: Creating Tables Using Oracle Application Express

1. Create the DDL Statements for creating the tables for the Academic Database listed above – include NOT NULL constraints where necessary. (Other constraints will be added later)

A. Membuat tabel AD ACADEMIC SESSIONS

Object Type TABLE Object AD_ACADEMIC_SESSIONS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_ACADEMIC_SESSIONS	<u>ID</u>	NUMBER	22	-	-	-	~	-	-
	NAME	VARCHAR2	50	-	-	-	-	-	-
								1	- 2

B. Membuat tabel AD_DEPARTMENTS

Object Type TABLE Object AD_DEPARTMENTS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_DEPARTMENTS	<u>ID</u>	NUMBER	22	-	-	-	~	-	-
	<u>NAME</u>	VARCHAR2	50	-	-	-	-	-	-
	<u>HEAD</u>	VARCHAR2	50	-	-	-	-	-	-
								1	- 3

C. Membuat tabel AD PARENT INFORMATION

	_	_							
Object Type TABLE Object AD	_PARENT_INFOR	RMATION							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_PARENT_INFORMATION	<u>ID</u>	NUMBER	22	-	-	-	/	-	-
	PARENT1_FN	VARCHAR2	50	-	-	-	-	-	-
	PARENT1_LN	VARCHAR2	50	-	-	-	-	-	-
	PARENT2_FN	VARCHAR2	50	-	-	-	/	-	-
	PARENT2_LN	VARCHAR2	50	-	-	-	/	-	-
								1	- 5

D. Membuat tabel AD_STUDENTS

Object Type TABLE Object AD_STUDENTS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_STUDENTS	<u>ID</u>	NUMBER	22	-	-	-	~	-	-
	FIRST_NAME	VARCHAR2	50	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	50	-	-	-	-	-	-
	REG_YEAR	DATE	7	-	-	-	-	-	-
	<u>EMAIL</u>	VARCHAR2	50	-	-	-	-	-	-
	PARENT_ID	NUMBER	22	-	-	-	-	-	-
								1	- 6

E. Membuat tabel AD_COURSES

Object Type TABLE Object AD_COURSES

Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>ID</u>	NUMBER	22	-	-	-	~	-	-
<u>NAME</u>	VARCHAR2	50	-	-	-	-	-	-
SESSION_ID	NUMBER	22	-	-	-	-	-	-
DEPT_ID	NUMBER	22	-	-	-	~	-	-
LOGON_ID	VARCHAR2	10	-	-	-	~	-	-
PASSWORD	VARCHAR2	10	-	-	-	~	-	-
BUILDING	VARCHAR2	50	-	-	-	/	-	-
ROOM	VARCHAR2	20	-	-	-	/	-	-
DATE_TIME	VARCHAR2	20	-	-	-	/	-	-
							1	- 9
	Column ID NAME SESSION ID DEPT ID LOGON ID PASSWORD BUILDING ROOM	ID NUMBER NAME VARCHAR2 SESSION ID NUMBER DEPT ID NUMBER LOGON ID VARCHAR2 PASSWORD VARCHAR2 BUILDING VARCHAR2 ROOM VARCHAR2	Column Data Type Length ID NUMBER 22 NAME VARCHAR2 50 SESSION ID NUMBER 22 DEPT ID NUMBER 22 LOGON ID VARCHAR2 10 PASSWORD VARCHAR2 10 BUILDING VARCHAR2 50 ROOM VARCHAR2 20	Column Data Type Length Precision ID NUMBER 22 - NAME VARCHAR2 50 - SESSION ID NUMBER 22 - DEPT_ID NUMBER 22 - LOGON_ID VARCHAR2 10 - PASSWORD VARCHAR2 10 - BUILDING VARCHAR2 50 - ROOM VARCHAR2 20 -	Column Data Type Length Precision Scale ID NUMBER 22 - - NAME VARCHAR2 50 - - SESSION ID NUMBER 22 - - DEPT ID NUMBER 22 - - LOGON ID VARCHAR2 10 - - PASSWORD VARCHAR2 10 - - BUILDING VARCHAR2 50 - - ROOM VARCHAR2 20 - -	Column Data Type Length Precision Scale Primary Key ID NUMBER 22 - - - NAME VARCHAR2 50 - - - SESSION ID NUMBER 22 - - - DEPT ID NUMBER 22 - - - LOGON ID VARCHAR2 10 - - - PASSWORD VARCHAR2 10 - - - BUILDING VARCHAR2 50 - - - ROOM VARCHAR2 20 - - -	Column Data Type Length Precision Scale Primary Key Nullable ID NUMBER 22 - - - ✓ NAME VARCHAR2 50 - - - - SESSION ID NUMBER 22 - - - - DEPT ID NUMBER 22 - - - ✓ LOGON ID VARCHAR2 10 - - - ✓ PASSWORD VARCHAR2 10 - - - ✓ BUILDING VARCHAR2 50 - - - ✓ ROOM VARCHAR2 20 - - - - ✓	Column Data Type Length Precision Scale Primary Key Nullable Default ID NUMBER 22 - - - ✓ - NAME VARCHAR2 50 - - - - - - SESSION_ID NUMBER 22 - - - ✓ - DEPT_ID NUMBER 22 - - - ✓ - LOGON_ID VARCHAR2 10 - - - ✓ - PASSWORD VARCHAR2 10 - - - ✓ - BUILDING VARCHAR2 50 - - - ✓ - ROOM VARCHAR2 20 - - - ✓ - DATE_TIME VARCHAR2 20 - - - - ✓ -

F. Membuat tabel AD_FACULTY

Object Type TABLE Object AD_FACULTY

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_FACULTY	<u>ID</u>	NUMBER	22	-	-	-	/	-	-
	FIRST_NAME	VARCHAR2	50	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	50	-	-	-	-	-	-
	<u>EMAIL</u>	VARCHAR2	50	-	-	-	-	-	-
	SALARY	NUMBER	22	-	-	-	~	-	-
	<u>INSURANCE</u>	VARCHAR2	20	-	-	-	/	-	-
	HOURLY_RATE	NUMBER	22	-	-	-	/	-	-
	DEPT_ID	NUMBER	22	-	-	-	~	-	-
								1	- 8

G. Membuat tabel AD_EXAM_TYPES

Object Type TABLE Object AD_EXAM_TYPES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_EXAM_TYPES	<u>TYPE</u>	VARCHAR2	50	-	-	-	~	-	-
	NAME	VARCHAR2	50	-	-	-	-	-	-
	DESCRIPTION	VARCHAR2	50	-	-	-	~	-	-
								1	- 3

H. Membuat tabel AD_EXAMS

Object Type TABLE Object AD_EXAMS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_EXAMS	<u>ID</u>	NUMBER	22	-	-	-	~	-	-
	START_DATE	DATE	7	-	-	-	~	-	-
	EXAM_TYPE	VARCHAR2	50	-	-	-	-	-	-
	COURSE_ID	NUMBER	22	-	-	-	-	-	-
								1	- 4

I. Membuat tabel AD_EXAM_RESULTS Object Type TABLE Object AD_EXAM_RESULTS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_EXAM_RESULTS	STUDENT_ID	NUMBER	22	-	-	-	~	-	-
	COURSE_ID	NUMBER	22	-	-	-	/	-	-
	EXAM_ID	NUMBER	22	-	-	-	/	-	-
	EXAM_GRADE	NUMBER	22	-	-	-	-	-	-
								1	- 4

J. Membuat tabel AD_STUDENT_ATTENDANCE

Object Type TABLE Object AD_STUDENT_ATTENDANCE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_STUDENT_ATTENDANCE	STUDENT_ID	NUMBER	22	-	-	-	~	-	-
	SESSION_ID	NUMBER	22	-	-	-	~	-	-
	NUM_WORK_DAYS	NUMBER	22	-	-	-	-	-	-
	NUM_DAYS_OFF	NUMBER	22	-	-	-	-	-	-
	EXAM_ELIGIBILITY	VARCHAR2	20	-	-	-	~	-	-
								1	- 5

K. Membuat tabel AD_STUDENT_COURSE_DETAILS

Object Type TABLE Object AD STUDENT COURSE DETAILS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_STUDENT_COURSE_DETAILS	STUDENT_ID	NUMBER	22	-	-	-	~	-	-
	COURSE_ID	NUMBER	22	-	-	-	~	-	-
	<u>GRADE</u>	VARCHAR2	2	-	-	-	-	-	-
								1	- 3

L. Membuat tabel AD_FACULTY_COURSE_DETAILS

Object Type TABLE Object AD_FACULTY_COURSE_DETAILS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_FACULTY_COURSE_DETAILS	FACULTY_ID	NUMBER	22	-	-	-	~	-	-
	COURSE_ID	NUMBER	22	-	-	-	~	-	-
	CONTACT_HRS	NUMBER	22	-	-	-	-	-	-
								1	- 3

M. Membuat tabel AD_FACULTY_LOGIN_DETAILS

Object Type TABLE Object AD_FACULTY_LOGIN_DETAILS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_FACULTY_LOGIN_DETAILS	FACULTY_ID	NUMBER	22	-	-	-	~	-	-
	LOGIN_DATE_TIME	TIMESTAMP(6)	11	-	6	-	-	-	-
								1	- 2

Exercise 2: Altering the Tables

- 1. Alter the tables in the Academic Database to define the primary key, foreign key and unique constraints.
- A. Constraint dari table AD_ACADEMIC_SESSIONS



B. Constraint dari table AD_COURSES

Results Explain Describe	Saved SQL History										
OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS	DEFERRABLE	DEFERRED	VALID
ACADEMIC_ISEPLUTPINUR	SYS_C007460	С	AD_COURSES	"NAME" IS NOT NULL	-		-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	SYS_C007461	С	AD_COURSES	"SESSION_ID" IS NOT NULL			-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_COURSES_PK	P	AD_COURSES					ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_COURSES_NAME_UK	U	AD_COURSES					ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_COURSES_FK1	R	AD_COURSES	-	ACADEMIC_ISEPLUTPINUR	AD_ACADEMIC_SESSIONS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_COURSES_FK2	R	AD_COURSES	-	ACADEMIC_ISEPLUTPINUR	AD_DEPARTMENTS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
6 rows returned in 0.03 second	ds Download										

C. Constraint dari table AD_DEPARTMENTS

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS	DEFERRABLE	DEFERRED	VALIDATED	GENERATED
ACADEMIC_ISEPLUTPINUR	SYS_C007451	С	AD_DEPARTMENTS	"NAME" IS NOT NULL	-	•	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GENERATED NAME
ACADEMIC_ISEPLUTPINUR	SYS_C007452	С	AD_DEPARTMENTS	"HEAD" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GENERATED NAME
ACADEMIC_ISEPLUTPINUR	AD_DEPARTMENTS_PK	Р	AD_DEPARTMENTS	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME
ACADEMIC_ISEPLUTPINUR	AD_DEPT_NAME_UK	U	AD_DEPARTMENTS				-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME
4 rows returned in 0.04 second	ds Download											

D. Constraint dari table AD_EXAMS

						R_CONSTRAINT_NAME						GE
ACADEMIC_ISEPLUTPINUR	SYS_C007466	С	AD_EXAMS	"EXAM_TYPE" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GE NA
ACADEMIC_ISEPLUTPINUR	SYS_C007467	С	AD_EXAMS	"COURSE_ID" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GE NAI
ACADEMIC_ISEPLUTPINUR	AD_EXAMS_PK	Р	AD_EXAMS					ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USI
ACADEMIC_ISEPLUTPINUR	AD_EXAMS_FK1	R	AD_EXAMS	-	ACADEMIC_ISEPLUTPINUR	AD_EXAM_TYPES_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USI
ACADEMIC_ISEPLUTPINUR	AD_EXAMS_FK2	R	AD_EXAMS	-	ACADEMIC_ISEPLUTPINUR	AD_COURSES_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USI
E source seturned in 0.03 second	de Doumland											

E. Constraint dari table AD_EXAM_TYPES

							DELETE_RULE		DEFERRABLE			GENERATED
ACADEMIC_ISEPLUTPINUR SYS	S_C007465	С	AD_EXAM_TYPES	"NAME" IS NOT NULL	-	-		ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	GENERATED NAME
ACADEMIC_ISEPLUTPINUR AD_	_EXAM_TYPES_PK	Р	AD_EXAM_TYPES	-		-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED	USER NAME

F. Constraint dari table AD_EXAM_RESULTS

OWNER							DELETE_RULE				
ACADEMIC_ISEPLUTPINUR	SYS_C007468	С	AD_EXAM_RESULTS	"EXAM_GRADE" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDAT
ACADEMIC_ISEPLUTPINUR	AD_EXAM_RESULTS_PK	P	AD_EXAM_RESULTS	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_EXAM_RESULTS_FK1	R	AD_EXAM_RESULTS		ACADEMIC_ISEPLUTPINUR	AD_STUDENTS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_EXAM_RESULTS_FK2	R	AD_EXAM_RESULTS	-	ACADEMIC_ISEPLUTPINUR	AD_COURSES_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA
ACADEMIC_ISEPLUTPINUR	AD_EXAM_RESULT_FK3	R	AD_EXAM_RESULTS		ACADEMIC_ISEPLUTPINUR	AD_EXAMS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDA'
F 0 00	l- D I I										

G. Constraint dari table AD_FACULTY

OWNER											
ACADEMIC_ISEPLUTPINUR	SYS_C007462	С	AD_FACULTY	"FIRST_NAME" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	SYS_C007463	С	AD_FACULTY	"LAST_NAME" IS NOT NULL		-		ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	SYS_C007464	С	AD_FACULTY	"EMAIL" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_PK	Р	AD_FACULTY	-	-	-		ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_FK	R	AD_FACULTY		ACADEMIC_ISEPLUTPINUR	AD_DEPARTMENTS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_EMAIL_UK	U	AD_FACULTY		-	-		ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
6 rows returned in 0.04 second	e Download										

H. Constraint dari table AD_PARENT_INFORMATION

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS	DEFERRABLE	DEFERRED	VALIDATED
ACADEMIC_ISEPLUTPINUR	SYS_C007453	С	AD_PARENT_INFORMATION	"PARENT1_FN" IS NOT NULL	-		-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	SYS_C007454	C	AD_PARENT_INFORMATION	"PARENT1_LN" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
ACADEMIC_ISEPLUTPINUR	AD_PARENT_INFORMATION_PK	Р	AD_PARENT_INFORMATION	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VALIDATED
3 rows returned in 0.03 second	ds Download										

I. Constraint dari table AD_STUDENTS

ACADEMIC_ISEPLUTPINUR S	SYS_C007455	С	AD_STUDENTS	"FIRST_NAME" IS NOT NULL		-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR \$	SYS_C007456	С	AD_STUDENTS	"LAST_NAME" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR S	SYS_C007457	С	AD_STUDENTS	"REG_YEAR" IS NOT NULL		-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR S	SYS_C007458	С	AD_STUDENTS	"EMAIL" IS NOT NULL				ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR S	SYS_C007459	С	AD_STUDENTS	"PARENT_ID" IS NOT NULL	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR A	AD_STUDENTS_PK	Р	AD_STUDENTS	-		-		ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR A	AD_STUDENTS_FK	R	AD_STUDENTS	-	ACADEMIC_ISEPLUTPINUR	AD_PARENT_INFORMATION_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
ACADEMIC_ISEPLUTPINUR A	AD_STUDENTS_EMAIL_UK	U	AD_STUDENTS	-				ENABLED	NOT DEFERRABLE	IMMEDIATE	VAL
8 rows returned in 0.03 seconds	Download										

J. Constraint dari table AD_STUDENT_ATTENDANCE

		_	_						
OWNER									
ACADEMIC_ISEPLUTPINUR	SYS_C007471	С	AD_STUDENT_ATTENDANCE	"NUM_WORK_DAYS" IS NOT NULL	-	-	-	ENABLED	NOT DEFERRABLE
ACADEMIC_ISEPLUTPINUR	SYS_C007472	С	AD_STUDENT_ATTENDANCE	"NUM_DAYS_OFF" IS NOT NULL				ENABLED	NOT DEFERRABLE
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_ATTENDANCE_PK	P	AD_STUDENT_ATTENDANCE	-		•	-	ENABLED	NOT DEFERRABLE
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_ATTENDANCE_FK1	R	AD_STUDENT_ATTENDANCE	-	ACADEMIC_ISEPLUTPINUR	AD_STUDENTS_PK	NO ACTION	ENABLED	NOT DEFERRABLE
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_ATTENDANCE_FK2	R	AD_STUDENT_ATTENDANCE	-	ACADEMIC_ISEPLUTPINUR	AD_ACADEMIC_SESSIONS_PK	NO ACTION	ENABLED	NOT DEFERRABLE
5 rows returned in 0.03 second	ds Download								

K. Constraint dari table AD_STUDENT_COURSE_DETAILS

OWNER	CONSTRAINT_NAME		TABLE_NAME			R_CONSTRAINT_NAME	DELETE_RULE			
ACADEMIC_ISEPLUTPINUR	SYS_C007469	С	AD_STUDENT_COURSE_DETAILS	"GRADE" IS NOT NULL	-	-	-	ENABLED	NOT DEFERRABLE	IMMED
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_COURSE_PK	Р	AD_STUDENT_COURSE_DETAILS	-			-	ENABLED	NOT DEFERRABLE	IMMED
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_COURSE_FK1	R	AD_STUDENT_COURSE_DETAILS	-	ACADEMIC_ISEPLUTPINUR	AD_STUDENTS_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEE
ACADEMIC_ISEPLUTPINUR	AD_STUDENT_COURSE_FK2	R	AD_STUDENT_COURSE_DETAILS	-	ACADEMIC_ISEPLUTPINUR	AD_COURSES_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMED
4 rows returned in 0.03 second	ds Download									

L. Constraint dari table AD_FACULTY_COURSE_DETAILS

ACADEMIC_ISEPLUTPINUR	SYS_C007473	С	AD_FACULTY_COURSE_DETAILS	"CONTACT_HRS" IS NOT NULL			-	ENABLED	NOT DEFERRABLE	IMMEDI
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_COURSE_PK	Р	AD_FACULTY_COURSE_DETAILS	-				ENABLED	NOT DEFERRABLE	IMMEDI
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_COURSE_FK1	R	AD_FACULTY_COURSE_DETAILS	-	ACADEMIC_ISEPLUTPINUR	AD_FACULTY_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDI
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_COURSE_FK2	R	AD_FACULTY_COURSE_DETAILS	-	ACADEMIC_ISEPLUTPINUR	AD_COURSES_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDI
4 rows returned in 0.03 second	de Doumland									

M. Constraint dari table AD_FACULTY_LOGIN_DETAILS

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE		DEFERRABLE	DEFERRED
ACADEMIC_ISEPLUTPINUR	SYS_C007470	С	AD_FACULTY_LOGIN_DETAILS	"LOGIN_DATE_TIME" IS NOT NULL	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_LOGIN_PK	P	AD_FACULTY_LOGIN_DETAILS	-	-	-	-	ENABLED	NOT DEFERRABLE	IMMEDIATE
ACADEMIC_ISEPLUTPINUR	AD_FACULTY_LOGIN_FK	R	AD_FACULTY_LOGIN_DETAILS		ACADEMIC_ISEPLUTPINUR	AD_FACULTY_PK	NO ACTION	ENABLED	NOT DEFERRABLE	IMMEDIATE
3 rows returned in 0.00 second	ds Download									

2. Alter the table AD_FACULTY_LOGIN_DETAILS and specify a default value for the column LOGIN_DATE_TIME of SYSDATE.

Object Type TABLE Object AD_FACULTY_LOGIN_DETAILS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
AD_FACULTY_LOGIN_DETAILS	FACULTY_ID	NUMBER	22	-	-	1	-	-	-
	LOGIN_DATE_TIME	TIMESTAMP(6)	11	-	6	2	-	SYSDATE	-
								1	- 2

3. Set the AD_PARENT_INFORMATION table to a read-only status.

Object Type TABLE Object AD_PARENT_INFORMATION

Object type TABLE Object AB_TARLETT_INTORMATION										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
AD_PARENT_INFORMATION	<u>ID</u>	NUMBER	22	-	-	1	-	-	-	
	PARENT1_FN	VARCHAR2	50	-	-	-	-	-	-	
	PARENT1_LN	VARCHAR2	50	-	-	-	-	-	-	
	PARENT2_FN	VARCHAR2	50	-	-	-	~	-	-	
	PARENT2_LN	VARCHAR2	50	-	-	-	/	-	-	
								1	- 5	

Exercise 3: Creating Composite Primary, Foreign and Unique Keys

1. Create the DEPT table with the following structure:

Object Type TABLE Object DEPT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	<u>DEPTNO</u>	NUMBER	-	2	0	1	-	-	-
	DNAME	VARCHAR2	14	-	-	-	~	-	-
	LOC	VARCHAR2	13	-	-	-	~	-	-
								1	- 3

2. Create the SUPPLIERS and PRODUCTS table with the following structure:

Object Type TABLE Object SUPPLIERS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SUPPLIERS	SUP_ID	NUMBER	-	15	0	1	-	-	-
	SUP_NAME	VARCHAR2	45	-	-	2	-	-	-
	CONTACT_NAME	VARCHAR2	45	-	-	-	~	-	-
								1	- 3

Object Type TABLE Object PRODUCTS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRODUCTS	PRODUCT_ID	NUMBER	-	10	0	1	-	-	-
	SUP_ID	NUMBER	-	15	0	-	-	-	-
	SUP_NAME	VARCHAR2	45	-	-	-	-	-	-
								1	- 3

3. Create the DEPT_SAMPLE table with the following structure:

Object Type TABLE Object DEPT_SAMPLE											
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
DEPT_SAMPLE	DEPT_ID	NUMBER	-	8	0	-	~	-	-		
	DEPT_NAME	VARCHAR2	30	-	-	-	/	-	-		
	LOC_ID	NUMBER	-	4	0	-	~	-	-		
								1	- 3		