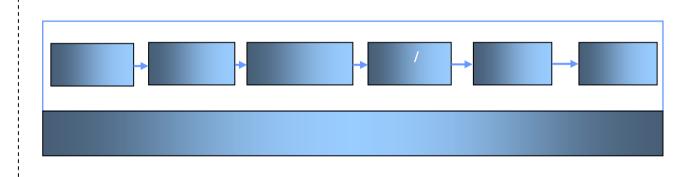
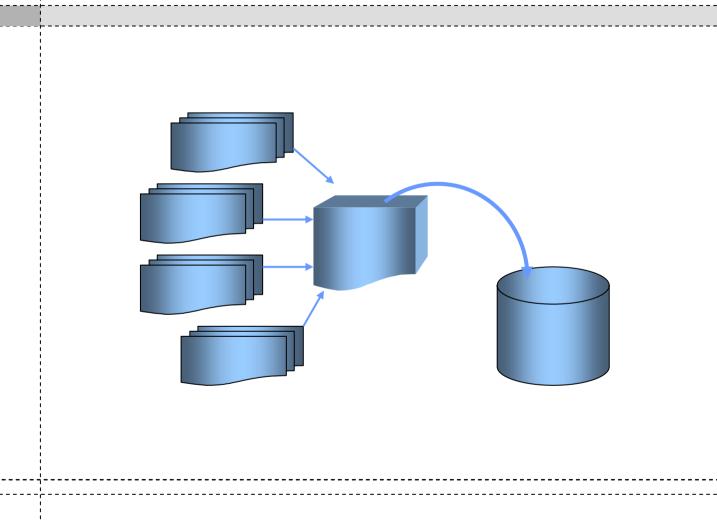
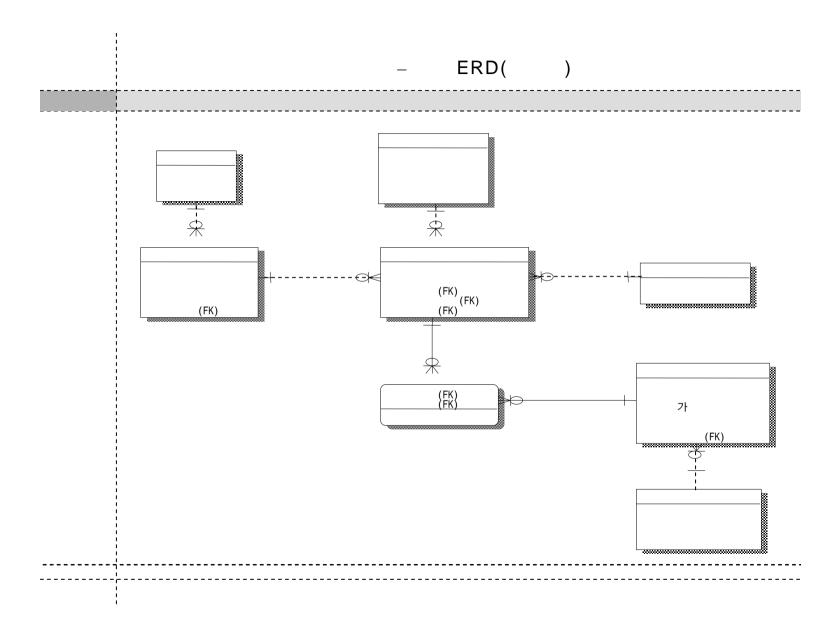
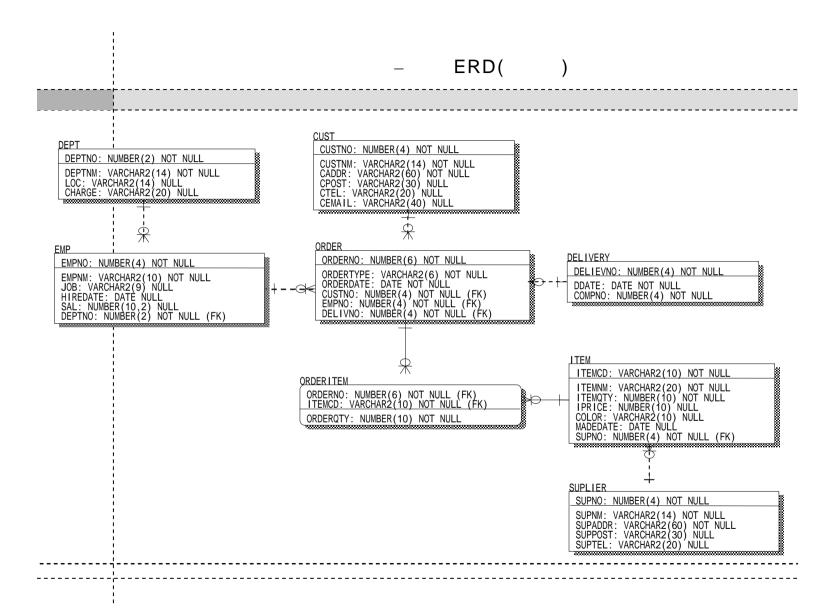


## Section 10









						2002 7	1
	D	EPT					
						NULL	KEY
1 2 3 4	DEPTNO DEPTNM LOC CHARGE		(N,2) (V,14) (V,14) (V,20))	NUMBER VARCHAR2 VARCHAR2 VARCHAR2	2 14 14 20	NOT NULL NOT NULL NULL NULL	PK
	E	МР				2002 7	1
						NULL	KEY
1 2 3 4 5	EMPNO EMPNM JOB HIREDATE SAL	( )	(N,4) (V,14) (V,9) (DATE) (F,10) (N,2)	NUMBER VARCHAR 2 VARCHAR 2 VARCHAR	4 14 9 10,2 2	NOT NULL NOT NULL NULL NULL NULL NULL NOT NULL	PK FK

						2002 7 1	
	С	CUST					
						NULL	KEY
1	CUSTNO		(N,4)	NUMBER	4	NOT NULL	PK
2	CUSTNM		(V,14)	VARCHAR2	14	NOT NULL	
3	CADDR		(V,60)	VARCHAR2	60	NULL	
4	CPOST		(V,30)	VARCHAR2	30	NULL	
	CTEL		(V,30)	VARCHAR2	30	NULL	
	CEMAIL		(V,40)	VARCHAR2	40	NULL	
						2002 7 1	
	0	RDER					
	0	PRDER .					
		PRDER .				NULL	KEY
1	ORDERNO	PRDER	(N,6)	NUMBER	6	NULL NOT NULL	<b>KEY</b>
1 2		PRDER .	(N,6) (V,6)	NUMBER VARCHAR2	6	NOT NULL	
	ORDERNO	PRDER .	(V,6) (DATE)	1	1	NOT NULL NOT NULL NULL	PK
2 3 4	ORDERNO ORDERTYPE ORDERDATE CUSTNO	PRDER	(V,6) (DATE) (N,4)	VARCHAR2 DATE NUMBER	1	NOT NULL NOT NULL NULL NULL	FK
2	ORDERNO ORDERTYPE ORDERDATE	PRDER	(V,6) (DATE)	VARCHAR2 DATE	6	NOT NULL NOT NULL NULL	PK

DEPT	PK_DEPT	DEPTNO	NUMDER(2)	ISINDEX01	UNIQUE	ASC	PK
END	PK_EMP	EMPNO	NUMBER(6)	ISINDEX01	UNIQUE	ASC	PK
EMP	I_EMP01	DEPTN0	NUMBER(2)	ISINDEX01	NON-UNIQUE	ASC	FK
CUST	PK_CUST	CUSTNO	NUMBER(4)	ISINDEX01	UNIQUE	ASC	PK
	PK_ORDER	ORDERNO	NUMBER(6)	ISINDEX01	UNIQUE	ASC	PK
	I_ORDER01	ORDERDATE	DATE	ISINDEX01	NON-UNIQUE	ASC	INDEX
ORDER	I_ORDER02	CUSTNO	NUMBER(4)	ISINDEX01	NON-UNIQUE	ASC	FK
	I_ORDER03	EMPNO	NUMBER(6)	ISINDEX01	NON-UNIQUE	ASC	FK
	I_ORDER04	DELE I VENO	NUMBER(4)	ISINDEX01	NON-UNIQUE	ASC	FK
	DK ODDEDITEM	ORDERNO	NUMER(6)	ISINDEX01	UNIQUE	ASC	PK
ORDERITEM	PK_ORDERITEM	ITEMCD	VARCHAR2(10)	ISTNUEAUT	UNTQUE	ASC	PN.
	I_ORDERITEM	ITEMCD	VARCHAR2(10)	ISINDEX01	NON-UNIQUE	ASC	FK

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V_ORDERITEM	ORDER	ORDERNO ORDERTYPE ORDERDATE CUSTNO EMPNO DELIVNO	NUMBER VARCHAR2 DATE NUMBER NUMBER NUMBER
	ORDERITEM	ORDERNO ITEMCD ORDERQTY	NUMBER(6) VARCHAR2(10) NUMBER(10)
V_EMP	ЕМР	EMPNO EMPNM DEPTNO	NUMBER(4) VARCHAR2(14) NUMBER(2)

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	DEPT	5M			
	EMP	20M	<b>T0</b> 004	53M	DF001.DBF01
	ITEM	10M	TS001		DF001.00F01
	SUPPLIER	<b>3</b> M			
	CUST	5M			
	ORDER	10M			
	ORDERITEM	10M	TS002	42M	DF002.DBF01
	DELIEVERY	5M			

1
 <u> </u>
<u></u>

	DEPT	<b>3</b> M				
	EMP	10M		28M	DF001.DBF02	
	ITEM	5M	IS001	20101	DF001.DBF02	
	SUPPLIER	2M				
	CUST	2M				
	ORDER	10M				
	ORDER I TEM	3M	IS002	24M	DF002.DBF02	
	DELIEVERY	2M				

D:	D:\TEST/DB1	10G	50	50%	DF001.DBF01	55M
U.	D. (1E31/DB1	100	5G	30%	DF001.DBF02	30M
F.		CON/	DF002.DBF01	45M		
E:	E:\TEST/DB2	10G	6G	60%	DF002.DBF02	25M

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			1
DEPT		, , ,	
EMP		, , ,	
CUST		, , ,	
ORDER		, , ,	
ORDERITEM		, , ,	
ITEM		, , ,	
SUPPLIER		, , ,	
DELIEVERY		, , ,	

	(BONSA)	(JISA)
IP Address	127.0.0.1	127.0.0.1
M/M	256M	256M
СРИ	1G	1G
DISK SPACE	40G	40G
WINDOWS 200	ADMINISTRATOR	ADMINISTRATOR
HOME DIRECTORY	C:\Oracle\Ora81	C:\Oracle\Ora81
DB_NAME	BONSA	JISA
SID	BONSA	JISA
	BONSA01/BONSA01	JISA01/JISA01
SGA	20M	20M
MAXDATAFILES	50	50
CHARACTER SET/NATIONAL CHARACTER SET	K016KSC5601/K016KSC5601	K016KSC5601/K016KSC5601
DB_BLOCK_SIZE	4K	4K
ROLLBACK_SEGMENTS	r01,r02,r03	r01, r02, r03
DB_FILES	20	20
DB_FILE_MULTIBLOCK_READ_COUNT	8	8
DB_BLOCK_BUFFERS	250	250
SHARED_POOL_SIZE	200000	200000
LOG_BUFFER	34222	34222
LOG_CHECKPOINT_INTERVAL	10000	10000
DB	crdb1B0NSA.sql crdb2B0NSA.sql	crdb1JISA.sql crdb2JISA.sql
Init.ora	initBONSA.ora	initJISA.ora

-----

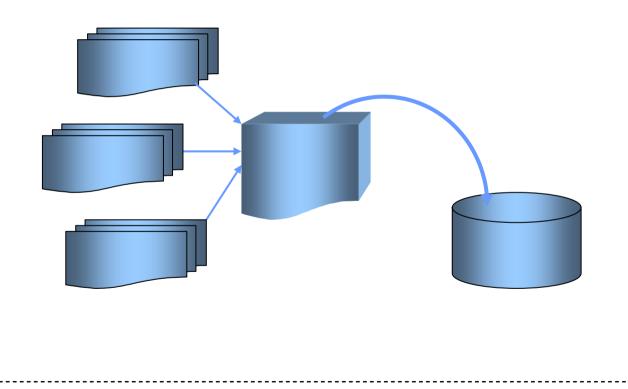
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			SYSTEMBONSA.DBF	100M
		D:\TEST\ORADATA\DB1	TOOLSBONSA.DBF	30M
			CONTROL1BONSA.CTL	2M
			REDO11BONSA.LOG	2M
BONSA	D:		RED021BONSA.LOG	2M
		D:\TEST\ORADATA\DB2	RBSBONSA . DBF	200M
			CONTROL2BONSA.CTL	2M
			RED012BONSA.LOG	2M
			RED022BONSA.LOG	2M
			SYSTEMJISA.DBF	100M
	E:	E:\TEST\ORADATA\DB1	TOOLSJISA.DBF	30M
			CONTROL1JISA.CTL	2M
			REDO11JISA.LOG	2M
JISA			RED021JISA.LOG	2M
		E:\TEST\ORADATA\DB2	RBSJISA.DBF	200M
			CONTROL2JISA.CTL	2M
			RED012JISA.LOG	2M
			RED022JISA.LOG	2M

## !!!







: ts\_cre\_bonsa.sql -- 1. -- 2. (TS001, IS001) : 2002 7 1 **-- 3.** -- 4. SPOOL ts\_cre\_bonsa.log --(TS001) **CREATE TABLESPACE TS001** DATAFILE 'D:\TEST\DB1\DF001.DBF01' SIZE 55M **DEFAULT STORAGE (INITIAL 1024K** NEXT 512K **MAXEXTENTS 128** PCTINCREASE 0); CREATE TABLESPACE IS001 --(ISO01) DATAFILE 'D:\TEST\DB1\DF001.DBF01' SIZE 30M **DEFAULT STORAGE (INITIAL 512K** NEXT 256K **MAXEXTENTS 128** PCTINCREASE 0);

**SPOOL OFF** 

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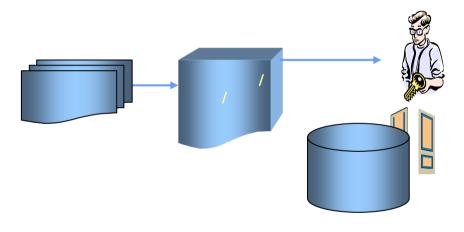
SQL> connect bonsa01/bonsa01@BONSA

SQL> @ts\_cre\_bonsa.sql

**SQL> ....** 

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TABLESPA	CE_NAME DATAFILE	SZ_KB
TS001	D:\TEST\DB1\DF101.DBF01	56,320
IS001	D:\TEST\DB1\DF001.DBF01	30,720
8		



-----

-- 1. : user\_cre\_bonsa.sql

-- 2. : (BONSA01)

-- 3. : 2002 7 1

-- 4. :

SPOOL user\_cre\_bonsa.log

CREATE USER BONSA01 IDENTIFIED BY BONSA01

**DEFAULT TABLESPACE USERS** 

**TEMPORARY TABLESPACE TEMP;** 

**SPOOL OFF** 

SQL> connect system/manager@BONSA

SQL> @user\_cre\_bonsa.sql

**SQL> ....** 

가

PROMPT ====================================	
PROMPT	
PROMPT =========	
COL USERNAME FORMAT A15	
COL DEF_TBS FORMAT A15	
COL TMP_TBS FORMAT A15	
SELECT USERNAME, DEFAULT_TABLESPACE DEF_TBS,	
TEMPORARY_TABLESPACE TMP_TBS, PROFILE	
FROM DBA_USERS;	
SERNAME DEF_TBS TMP_TBS PROFILE	
BONSA01 USERS TEMP DEFAULT	

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## DDL

-- 1. : role\_cre\_bonsa.sql

-- 2. (BONSA01)

-- 3. : 2002 7 1

-- **4**.

CREATE ROLE BONSA\_ROLE NOT IDENTIFIED;

GRANT CREATE SESSION, CREATE TABLE, CREATE VIEW, ALTER ROLLBACK SEGMENT TO BONSA\_ROLE;

SQL> connect system/manager@BONSA

SQL> @role\_cre\_bonsa.sql

**SQL> ....** 

------

PRO	MPT ========
PRO	MPT
PRO	MPT =========
COL	ROLE FORMAT A35
SELE	ECT ROLE FROM DBA_ROLES;
SELE	ECT ROLE FROM DBA_ROLES;
ROL	E
•••	
	SA_ROLE
23	•

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## - DDL

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-- 1. : role\_grant\_jisa.sql

-- 2. (JISA01)

**-- 3.** : 2002 7 1

**-- 4.** :

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**GRANT JISA\_ROLE TO JISA01;** 

SQL> connect system/manager@JISA

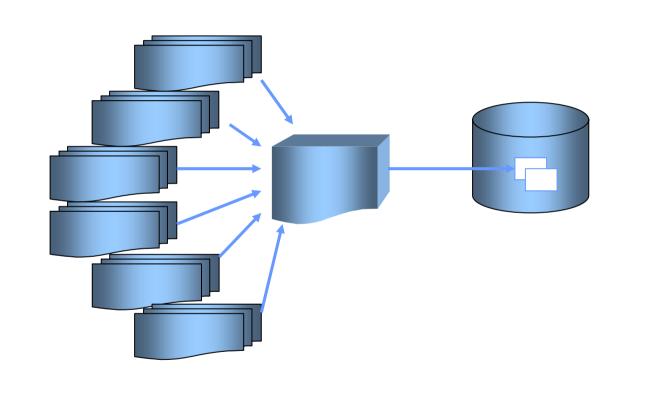
SQL> @role\_grant\_jisa.sql

**SQL> ....** 

•

**PROMPT COL GRANTEE FORMAT A10** COL GRANTED\_ROLE FORMAT A30 SELECT GRANTEE, GRANTED\_ROLE FROM DBA\_ROLE\_PRIVS; GRANTEE GRANTED\_ROLE BONSA01 BONSA\_ROLE





```
: tab_cre_bonsa.sql
-- 1.
                              (BONSA01)
-- 2.
-- 3.
        : 2002 7 1
-- 4.
SPOOL tab_cre_bonsa.log
CREATE TABLE DEPT (
                 NUMBER(2) NOT NULL,
   DEPTNO
                 VARCHAR2(14) NOT NULL,
   DEPTNM
              VARCHAR2(14) NULL,
   LOC
   CHARGE
                VARCHAR2(20) NULL
) TABLESPACE TS001
STORAGE(INITIAL 1M
    NEXT 1M
    PCTINCREASE 0);
ALTER TABLE DEPT ADD CONSTRAINT DEPT_PK PRIMARY KEY( DEPTNO);
ALTER TABLE ORDER ADD CONSTRAINT ORDER_DELIVERY_FK01
         FOREIGN KEY(DELIEVNO) REFERENCES DELIVERY;
SPOOL OFF
```

SQL> connect bonsa01/bonsa01@BONSA

SQL> @tab\_cre\_bonsa.sql
...
...

PROMPT

**COL SEGMENT\_NAME FORMAT A15** 

COL TABLESPACE\_NAME FORMAT A10

SELECT SEGMENT\_NAME, ROUND(INITIAL\_EXTENT/1024,0) INI\_KB,
ROUND(NEXT\_EXTENT/1024,0) NXT\_KB, ROUND(BYTES/1024,0) TOT\_KB,
PCT\_INCREASE PCT, EXTENTS, TABLESPACE\_NAME
FROM USER SEGMENTS

WHERE SEGMENT\_TYPE = 'TABLE';

SEGMENT\_NAME INI\_KB NXT\_KB TOT\_KB PCT EXTENTS TABLESPACE

-----

DEPT 1024 1024 1040 0 1 TS001

PROMPT ===========

PROMPT FOREIGN KEY

COL CONSTRAINT\_NAME FOR A20

COL R\_CONSTRAINT\_NAME FOR A20

SELECT CONSTRAINT\_NAME,R\_CONSTRAINT\_NAME,STATUS

FROM USER\_CONSTRAINTS;

CONSTRAINT\_NAME R\_CONSTRAINT\_NAME STATUS

-----

EMP\_DEPT\_FK01 DEPT\_PK ENABLED

DEPT\_SUPPLER\_FK01 SUPPLER\_PK ENABLED

SQL> connect bonsa01/bonsa01@BONSA

SQL> @index\_cre\_bonsa.sql

•••

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SEGMENT_N	IAME	INI_KB	NXT_KB	TOT_KB	PCT	EXTENTS TABLESPACE
I_EMP	1024	512 1	040 0	1 TS001		

## DDL

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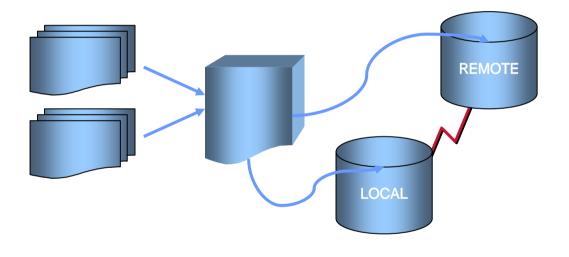
SQL> connect bonsa01/bonsa01@BONSA

SQL> @view\_cre\_bonsa.sql

•••

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• 7}

1)

C:\>lsnrctl start
...
...
BONSA has 1

가

## 2) Tnsnames.ora

Tnsnames.ora

```
BONSA =

(DESCRIPTION =

(ADDRESS_LIST =

(ADDRESS = (PROTOCOL = TCP)(HOST = 127.0.0.1)(PORT = 1521)) )

(CONNECT_DATA =

(SERVICE_NAME = BONSA) ))
```

• 가

3)

SQL> CREATE PUBLIC DATABASE LINK H2U1

CONNECT TO BONSA01 IDENTIFIED BY BONSA01

USING 'BONSA'; <-- Tnsnames.ora

## **CREATE SNAPSHOT LOG ON EMP**

**TABLESPACE TS001** 

STORAGE(INITIAL 1M NEXT 1M PCTINCREASE 0);

## **CREATE SNAPSHOT EMP**

TABLESPACE TS002 STORAGE (MINEXTENTS 1 PCTINCREASE 0)

USING INDEX TABLESPACE IS002 STORAGE (MINEXTENTS 1 PCTINCREASE 0)

**REFRESH FAST** 

START WITH SYSDATE NEXT TRUNC(SYSDATE) + 1 + (20/24) <-- REFRESH

AS SELECT \* FROM EMP@BONSA; <--