

ADBMS Lab Experiment-2

Name- Suyash Murari

Sap Id- 500093994

1. Create the tables described below:

Table name: CLIENT_MASTER_1

Description: used to store client information

Object Browser

Schema WKSP_SUYASH77

CLIENT_MASTER_1

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

Triggers

Dependencies

S

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
CLIENTNO	VARCHAR2(6)	No	-	1
CLIENT_NAME	VARCHAR2(20)	No	-	-
ADDRESS1	VARCHAR2(30)	Yes	-	-
ADDRESS2	VARCHAR2(30)	Yes	-	-
CITY	VARCHAR2(15)	Yes	-	-
PINCODE	NUMBER(8,0)	Yes	-	-
CLIENT_STATE	VARCHAR2(15)	Yes	-	-
BALDUE	NUMBER(10,0)	Yes	-	-

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Table Name: PRODUCT_MASTER_1

Description: used to store product information

Object Browser

Schema

WKSP_SUYASH77

PRODUCT_MASTER_1

Table

Data

Indexes

Model

Constraints

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Statistics

UI Defaults

Triggers

Dependencies

SQL

RES

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
PRODUCT_NO	VARCHAR2(6)	No	-	1
DESCRIPTION_DETAILS	VARCHAR2(15)	No	-	-
PROFITPERCENT	NUMBER(4,0)	No	-	-
UNIT_MEASURE	VARCHAR2(10)	No	-	-
QTYOHAND	NUMBER(30,0)	No	-	-
REORDERL_VL	NUMBER(30,0)	No	-	-
SELLPRICE	NUMBER(11,0)	No	-	-
COSTPRICE	NUMBER(8,0)	No	-	-

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Table Name: SALESMAN_MASTER_1

Description: used to store salesman information working for the company

Object Browser

Schema

WKSP_SUYASH77

SALESMAN_MASTER_1

Table

Data

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Model

Constraints

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REST

Sample Que

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
SALESMANNO	VARCHAR2(6)	No	-	1
SALESMANNAME	VARCHAR2(20)	No	-	-
ADDRESS1	VARCHAR2(30)	No	-	-
ADDRESS2	VARCHAR2(30)	Yes	-	-
CITY	VARCHAR2(20)	Yes	-	-
PINCODE	NUMBER	Yes	-	-
SALEMAN_STATE	VARCHAR2(20)	Yes	-	-
SALAMT	NUMBER(20,0)	No	-	-
TGTTOGET	NUMBER(38,0)	No	-	-
YTDSALES	NUMBER(6,0)	No	-	-
REMARKS	VARCHAR2(60)	Yes	-	-

2. Reinsert the data in these two tables based upon Lab 1 & display.

Object Browser

SchemaWKSP_SUYASH77

CLIENT_MASTER_1

+ v

TableDataIndexesModelConstraintsGrantsStatisticsUI DefaultsTriggersDependenciesSQLRESTSample Que

QueryCount RowsInsert RowLoad Data

EDIT	CLIENTNO	CLIENT_NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	CLIENT_STATE	BALDUE
	C00005	HANSEL COLACO	-	-	MUMBAI	400060	MAHARASHTRA	2000
	C00006	DEEPAK SHARMA	-	-	MANGALORE	560050	KARNATAKA	0
	C00004	ASHWINI JOSHI	-	-	BANGALORE	560001	KARNATAKA	0
	C00001	Ivan bayross	-	-	Mumbai	400054	Maharashtra	1500
	C00002	Mamta muzumdar	-	-	Madras	780001	Tamil nadu	0
	C00003	CHHAYA BANKAR	-	-	MUMBAI	400057	MAHARASHTRA	0

Object Browser

SchemaWKSP_SUYASH77

PRODUCT_MASTER_1

+ v

TableDataIndexesModelConstraintsGrantsStatisticsUI DefaultsTriggersDependenciesSQLRESTSample Queries

QueryCount RowsInsert RowLoad Data

EDIT	PRODUCT_NO	DESCRIPTION_DETAILS	PROFITPERCENT	UNIT_MEASURE	QTYOHAND	REORDERL_VL	SELLPRICE	COSTPRICE
	P00001	T-Shirt	5	Piece	200	50	350	250
	P0345	Shirts	6	Piece	150	50	500	350
	P07865	Trousers	5	Piece	150	50	850	950
	P07975	Lycra Tops	5	Piece	70	30	300	175
	P07885	Pull Overs	3	Piece	80	30	700	450
	P08865	Skirts	5	Piece	75	30	450	300

Object Browser

SchemaWKSP_SUYASH77

SALESMAN_MASTER_1

+ v

TableDataIndexesModelConstraintsGrantsStatisticsUI DefaultsTriggersDependenciesSQLRESTSample Queries

QueryCount RowsInsert RowLoad Data

EDIT	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	SALEMAN_STATE	SALAMT	TGTTTOGET	YTDSALES	REMARKS
	S00003	RAJ	P-7	BANDRA	PUNE	400032	MAHARASHTRA	3000	200	100	GOOD
	S00001	AMAN	A/14	WORLI	PUNE	400002	MAHARASHTRA	3000	100	50	GOOD
	S00002	OMIKAR	65	NARIMAN	PUNE	400001	MAHARASHTRA	3000	200	100	GOOD
	S00005	RAJ	P-7	BANDRA	PUNE	400032	MAHARASHTRA	3000	200	100	GOOD

3. Create table AUTHOR = {Author_ID , Lastname, Firstname, Email, City, Country}

Where:

Author_ID – text data type, 5 characters, primary key

Lastname – text data type, 15 characters, not null

Firstname – text data type, 15 characters, not null

Email – text data type, 40 characters,

City – text data type, 15 characters,

Country – text data type, 15 characters

Object Browser

Schema WKSP_SUYASH77

AUTHOR

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
AUTHOR_ID	VARCHAR2(5)	No	-	1
LASTNAME	VARCHAR2(15)	No	-	-
FIRSTNAME	VARCHAR2(15)	No	-	-
EMAIL	VARCHAR2(40)	Yes	-	-
CITY	VARCHAR2(15)	Yes	-	-
COUNTRY	VARCHAR2(15)	Yes	-	-

Object Browser

AUTHOR

Table Data Indexes Model Constraints Grants Statistics

```
CREATE TABLE "AUTHOR"
(
  "AUTHOR_ID" VARCHAR2(5),
  "LASTNAME" VARCHAR2(15) NOT NULL ENABLE,
  "FIRSTNAME" VARCHAR2(15) NOT NULL ENABLE,
  "EMAIL" VARCHAR2(40),
  "CITY" VARCHAR2(15),
  "COUNTRY" VARCHAR2(15),
  PRIMARY KEY ("AUTHOR_ID")
  USING INDEX  ENABLE
)
/
```

4. **Create Table BOOK={ Book_ID, Book_Title, Copies)**
Where :Book_ID – text data type, 5 characters Primary Key Start With Character B
Book_Title - Text data Type Not Null
Copies- No.of copies Data Type int always greater the 2

Object Browser

Schema WKSP_SUYASH77

BOOK

Table

Data

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SQL

REST

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
BOOK_ID	VARCHAR2(5)	No	-	1
BOOK_TITLE	VARCHAR2(50)	No	-	-
COPIES	NUMBER(29,0)	No	-	-

Object Browser

BOOK

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

```

CREATE TABLE "BOOK"
(
  "BOOK_ID" VARCHAR2(5),
  "BOOK_TITLE" VARCHAR2(50) NOT NULL ENABLE,
  "COPIES" NUMBER(29,0) NOT NULL ENABLE,
  CHECK (Copies > 2) ENABLE,
  PRIMARY KEY ("BOOK_ID")
  USING INDEX ENABLE,
  CONSTRAINT "BOOK_ID_CHECK" CHECK (Book_ID LIKE 'B%') ENABLE
)
/

```

5. Create table **AUTHOR_LIST** = {**Author_ID** , **Book_ID** , **Role**}

Where:

Author_ID – text data type, 5 characters, referenced by **Author_ID** from **AUTHOR** table

Book_ID – text data type, 5 characters

Role – text data type, 15 characters

and primary key is: **Author_ID**, **Book_ID**

Object Browser

Schema WKSP_SUYASH77

AUTHOR_LIST

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
AUTHOR_ID	VARCHAR2(5)	No	-	1
BOOK_ID	VARCHAR2(5)	No	-	2
AUTHOR_ROLE	VARCHAR2(15)	Yes	-	-
PUBLISHER	VARCHAR2(30)	Yes	-	-

Object Browser

AUTHOR_LIST

Table Data Indexes Model Constraints Grants Statistics

```
CREATE TABLE "AUTHOR_LIST"
(
  "AUTHOR_ID" VARCHAR2(5),
  "BOOK_ID" VARCHAR2(5),
  "AUTHOR_ROLE" VARCHAR2(15),
  "PUBLISHER" VARCHAR2(30),
  PRIMARY KEY ("AUTHOR_ID", "BOOK_ID")
  USING INDEX ENABLE
)
/
ALTER TABLE "AUTHOR_LIST" ADD FOREIGN KEY ("AUTHOR_ID")
REFERENCES "AUTHOR" ("AUTHOR_ID") ENABLE
/
```

6. Add four records in each tables **AUTHOR**, **BOOK**, **AUTHOR_LIST**.

APEX

App Builder

SQL Workshop

Team Development

Gallery

Q Search

?

SM

SQL Commands

Schema WKSP_SU1YASH77

Language SQL

Rows 10

Clear Command

Find Tables

Save

Run

Q

A:-

```
1 INSERT INTO AUTHOR(AUTHOR_ID, LASTNAME, FIRSTNAME, EMAIL, CITY, COUNTRY)
2 VALUES('A004', 'JENNINGS', 'PAUL', 'PAULJENNINGS@GMAIL.COM', 'LONDON', 'ENGLAND');
3
4
5
```

Results

Explain

Describe

Saved SQL

History

1 row(s) inserted.

0.01 seconds

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Object Browser

Schema WKSP_SU1YASH77

AUTHOR

+ v

Table

Data

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Dependencies

SQL

REST

Query

Count Rows

Insert Row

Load Data

EDIT	AUTHOR_ID	LASTNAME	FIRSTNAME	EMAIL	CITY	COUNTRY
	A002	ROWLINGS	JK	ROWLINGS@GMAIL.COM	LONDON	ENGLAND
	A003	LAL	JETHA	JETHALAL@GMAIL.COM	SURAT	INDIA
	A004	JENNINGS	PAUL	PAULJENNINGS@GMAIL.COM	LONDON	ENGLAND
	A001	KHAN	ZAKHIR	ZAKHIRKHAN@GMAIL.COM	MUMBAI	INDIA

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row(s) 1 - 4 of 4

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Object Browser

Schema WKSP_SU1YASH77

AUTHOR_LIST

+ v

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

Triggers

Dependencies

SQL

REST

Query

Count Rows

Insert Row

Load Data

EDIT	AUTHOR_ID	BOOK_ID	AUTHOR_ROLE
	A002	B0003	CO AUTHOR
	A003	B0002	MAIN AUTHOR
	A001	B0002	MAIN AUTHOR
	A004	B0004	MAIN AUTHOR

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row(s) 1 - 4 of 4

APEX

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SM

Object Browser

Schema WKSP_SU1YASH77

AUTHOR

+ v

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

Triggers

Dependencies

SQL

REST

Sample

Query

Count Rows

Insert Row

Load Data

EDIT	AUTHOR_ID	LASTNAME	FIRSTNAME	EMAIL	CITY	COUNTRY
	A002	ROWLINGS	JK	ROWLINGS@GMAIL.COM	LONDON	ENGLAND
	A003	LAL	JETHA	JETHALAL@GMAIL.COM	SURAT	INDIA
	A004	JENNINGS	PAUL	PAULJENNINGS@GMAIL.COM	LONDON	ENGLAND
	A001	KHAN	ZAKHIR	ZAKHIRKHAN@GMAIL.COM	MUMBAI	INDIA

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row(s) 1 - 4 of 4

7. Alter structure of table AUTHOR_LIST add the field Publisher data type of 30 Character.

The screenshot displays a database management interface with two main panels. The left panel, titled 'SQL Commands', shows a schema dropdown set to 'WKSP_SU/VASH77'. Below this, there are controls for 'Language' (set to SQL), 'Rows' (set to 10), and buttons for 'Clear Command', 'Find Tables', 'Save', and 'Run'. The SQL command entered is:

```
1 ALTER TABLE AUTHOR_LIST ADD PUBLISHER VARCHAR2(30);
2
3
```

The right panel, titled 'Object Browser', shows the same schema dropdown. It displays the structure of the 'AUTHOR_LIST' table with tabs for 'Table', 'Data', 'Indexes', 'Model', 'Constraints', 'Grants', 'Statistics', 'UI Defaults', 'Triggers', 'Dependencies', 'SQL', 'REST', and 'Sample'. The 'Table' tab is active, showing a table with the following columns:

Column Name	Data Type	Nullable	Default	Primary Key
AUTHOR_ID	VARCHAR2(5)	No	-	1
BOOK_ID	VARCHAR2(5)	No	-	2
AUTHER_ROLE	VARCHAR2(15)	Yes	-	-
PUBLISHER	VARCHAR2(30)	Yes	-	-

Below the table structure, there are links for 'Download' and 'Print'. The bottom of the interface shows a 'Results' tab with the message 'Table altered.' and a execution time of '0.05 seconds'.