






DDL COMMANDS






CREATING TABLE AUTHOR:

SQL>create table author(author_id varchar(10), names varchar(20),email
varchar(50),phone_number number(20),status varchar(20),primary key(author_id));

 COLUMN_NAME	 DATA_TYPE	 NULLABLE	DATA_DEFAULT	 COLUMN_ID	 COMMENTS
1 AUTHOR ID	VARCHAR2(10 BYTE)	No	(null)	1	(null)
2 NAMES	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 EMAIL	VARCHAR2(50 BYTE)	Yes	(null)	3	(null)
4 PHONE NUMBER	NUMBER(20,0)	Yes	(null)	4	(null)
5 STATUS	VARCHAR2(20 BYTE)	Yes	(null)	5	(null)






CREATING TABLE PUBLISHER:

SQL>create table publisher(publisher_id varchar(10), pubname varchar(20), address
varchar(50), primary key(publisher_id));

 COLUMN_NAME	 DATA_TYPE	 NULLABLE	DATA_DEFAULT	 COLUMN_ID	 COMMENTS
1 PUBLISHER ID	VARCHAR2(10 BYTE)	No	(null)	1	(null)
2 PUBNAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 ADDRESS	VARCHAR2(50 BYTE)	Yes	(null)	3	(null)






CREATING TABLE MEMBER:

SQL>create table members(member_id varchar(20),membername varchar(30),branch_code
varchar(20),roll_number varchar(10),phone_number number(20),email_id
varchar(50),date_of_join number(30),status varchar(20),primary key(member_id));

 COLUMN_NAME	 DATA_TYPE	 NULLABLE	DATA_DEFAULT	 COLUMN_ID	 COMMENTS
1 MEMBER ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2 MEMBERNAME	VARCHAR2(30 BYTE)	Yes	(null)	2	(null)
3 BRANCH CODE	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4 ROLL NUMBER	VARCHAR2(10 BYTE)	Yes	(null)	4	(null)
5 PHONE NUMBER	NUMBER(20,0)	Yes	(null)	5	(null)
6 EMAIL ID	VARCHAR2(50 BYTE)	Yes	(null)	6	(null)
7 DATE OF JOIN	NUMBER(30,0)	Yes	(null)	7	(null)
8 STATUS	VARCHAR2(20 BYTE)	Yes	(null)	8	(null)

CREATING TABLE LANGUAGE:

SQL>create table languages(language_id varchar(20),langname varchar(20));

 COLUMN_NAME	 DATA_TYPE	 NULLABLE	DATA_DEFAULT	 COLUMN_ID	 COMMENTS
1 LANGUAGE ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2 LANGNAME	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)

CREATING TABLE BOOK:

SQL>create table book(book_id varchar(20),title varchar(20),language_id varchar(20),MRP number(10),publisher_id varchar(10),published_date varchar(10),volume varchar(20),status varchar(10),primary key(book_id),foreign key(language_id) references languages(language_id),foreign key(publisher_id) references publisher(publisher_id));

1	COLUMN_NAME	2	DATA_TYPE	3	NULLABLE	DATA_DEFAULT	4	COLUMN_ID	5	COMMENTS
1	BOOK ID		VARCHAR2(20 BYTE)	No		(null)		1		(null)
2	TITLE		VARCHAR2(20 BYTE)	Yes		(null)		2		(null)
3	LANGUAGE ID		VARCHAR2(20 BYTE)	Yes		(null)		3		(null)
4	MRP		NUMBER(10,0)	Yes		(null)		4		(null)
5	PUBLISHER ID		VARCHAR2(10 BYTE)	Yes		(null)		5		(null)
6	PUBLISHED DATE		VARCHAR2(10 BYTE)	Yes		(null)		6		(null)
7	VOLUME		VARCHAR2(20 BYTE)	Yes		(null)		7		(null)
8	STATUS		VARCHAR2(10 BYTE)	Yes		(null)		8		(null)

CREATING TABLE BOOK_AUTHOR:

SQL>create table book_author(book_id varchar(20),author_id varchar(10),foreign key(book_id) references book(book_id),foreign key(author_id) references author(author_id));

1	COLUMN_NAME	2	DATA_TYPE	3	NULLABLE	DATA_DEFAULT	4	COLUMN_ID	5	COMMENTS
1	BOOK ID		VARCHAR2(20 BYTE)	No		(null)		1		(null)
2	AUTHOR ID		VARCHAR2(10 BYTE)	No		(null)		2		(null)

CREATING TABLE BOOK_ISSUE:

SQL>create table book_issue(issue_id varchar(20),date_of_issue varchar(10),book_id varchar(20),member_id varchar(20),expected_date_of_return varchar(20),status varchar(20),primary key(issue_id),foreign key(book_id) references book(book_id),foreign key(member_id) references members(member_id));

1	COLUMN_NAME	2	DATA_TYPE	3	NULLABLE	DATA_DEFAULT	4	COLUMN_ID	5	COMMENTS
1	ISSUE ID		VARCHAR2(20 BYTE)	No		(null)		1		(null)
2	DATE OF ISSUE		VARCHAR2(10 BYTE)	Yes		(null)		2		(null)
3	BOOK ID		VARCHAR2(20 BYTE)	Yes		(null)		3		(null)
4	MEMBER ID		VARCHAR2(20 BYTE)	Yes		(null)		4		(null)
5	EXPECTED DATE OF RETURN		VARCHAR2(20 BYTE)	Yes		(null)		5		(null)
6	STATUS		VARCHAR2(20 BYTE)	Yes		(null)		6		(null)

CREATING TABLE BOOK_RETURN:

SQL>create table book_return(issue_id varchar(20),actual_date_of_return varchar(20),late_days varchar(10),late_fee varchar(10),primary key(issue_id),foreign key(issue_id) references book_issue(issue_id));

1	COLUMN_NAME	2	DATA_TYPE	3	NULLABLE	DATA_DEFAULT	4	COLUMN_ID	5	COMMENTS
1	ISSUE ID		VARCHAR2(20 BYTE)	No		(null)		1		(null)
2	ACTUAL DATE OF RETURN		VARCHAR2(20 BYTE)	Yes		(null)		2		(null)
3	LATE DAYS		VARCHAR2(10 BYTE)	Yes		(null)		3		(null)
4	LATE FEE		VARCHAR2(10 BYTE)	Yes		(null)		4		(null)

CREATING TABLE LATE FEE RULE:

SQL>create table late_fee_rule(from_days number(10),to_days number(20),amount number(20));

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	FROM_DAYS	NUMBER(10,0)	Yes	(null)	1	(null)
2	TO_DAYS	NUMBER(20,0)	Yes	(null)	2	(null)
3	AMOUNT	NUMBER(20,0)	Yes	(null)	3	(null)

INSERTING VALUES INTO TABLE AUTHOR:

SQL>insert into author values('a1','chetan bhagat','cb@gmail.com',9080706050,'available');

SQL>insert into author values('a2','Jane Austin','ja@gmail.com',9181716151,'available');

SQL>select * from author;

	AUTHOR_ID	NAMES	EMAIL	PHONE_NUMBER	STATUS
1	a1	chetan bhaqat	cb@gmail.com	9080706050	available
2	a2	Jane Austin	ja@gmail.com	9181716151	available

INSERTING VALUES INTO TABLE PUBLISHER:

SQL>insert into publisher values('p1','blooms','abc house,xyz city,new delhi');

SQL>insert into publisher values('p2','DC books','pqr house,abc city,new delhi');

SQL>select * from publisher;

	PUBLISHER_ID	PUBNAME	ADDRESS
1	p1	blooms	abc house,xyz city,new delhi
2	p2	DC books	pqr house,abc city,new delhi

INSERTING VALUES INTO TABLE MEMBERS:

SQL>insert into members values

('m1','john','branch1',001,5060708090,'john@gmail.com','1/1/01','available');

SQL>insert into members values

('m2','mary','branch2',002,5161718191,'mary@gmail.com','20/2/2002','available');

SQL>select * from members;

	MEMBER_ID	MEMBERNAME	BRANCH_CODE	ROLL_NUMBER	PHONE_NUMBER	EMAIL_ID	DATE_OF_JOIN	STATUS
1	m1	john	branch1	1	5060708090	john@gmail.com	01-01-01	available
2	m2	mary	branch2	2	5161718191	mary@gmail.com	20-02-02	available

INSERTING VALUES INTO TABLE LANGUAGE:

SQL>insert into languages values('L1','english');

SQL>insert into languages values('L2','malayalam');

SQL>select * from languages;

	LANGUAGE_ID	LANGNAME
1	L1	english
2	L2	malayalam

INSERTING VALUES INTO TABLE BOOK:

SQL>insert into book values('b1','2 states','L1',125,'p1','1/1/01','v1','available');

SQL>insert into book values('b2','pride','L2',500,'p2','1/1/20','v2','available');

SQL>select * from book;

	BOOK_ID	TITLE	LANGUAGE_ID	MRP	PUBLISHER_ID	PUBLISHED_DATE	VOLUME	STATUS	PAGES
1	b1	2 states	L1	125	p1	1/1/01	v1	available (null)	
2	b2	pride	L2	500	p2	1/1/20	v2	available (null)	

INSERTING VALUES INTO TABLE BOOK ISSUE:

SQL>insert into book_issue values('b1','12/8/24','b1','m1','20/8/24','available');

SQL>insert into book_issue values('b2','15/8/24','b1','m1','25/8/24','available');

SQL>select * from book_issue;

	ISSUE_ID	DATE_OF_ISSUE	BOOK_ID	MEMBER_ID	EXPECTED_DATE_OF_RETURN	STATUS
1	bI1	12-08-24	b1	m1	20-08-24	available
2	bI2	15-08-24	b1	m1	25-08-24	available

INSERTING VALUES INTO TABLE BOOK AUTHOR:

SQL>insert into book_author values('b1','a1');

SQL>insert into book_author values('b2','a2');

SQL>select * from book_author;

	BOOK_ID	AUTHOR_ID
1	b1	a1
2	b2	a2

INSERTING VALUES INTO TABLE BOOK_RETURN:

SQL>insert into book_return values('b11','20/8/24',0,0);

SQL>insert into book_return values('b12','25/8/24',5,10);

SQL>select * from book_return;

	ISSUE_ID	ACTUAL_DATE_OF_RETURN	LATE_DAYS	LATE_FEE
1	b11	20-08-24	0	0
2	b12	25-08-24	5	10

INSERTING VALUES INTO TABLE LATE_FEE_RULE:

SQL>insert into late_fee_rule values(0,7,10);

SQL>insert into late_fee_rule values(7,30,100);

SQL>select * from late_fee_rule;

	FROM_DAYS	TO_DAYS	AMOUNT
1	0	7	10
2	7	30	100

1)ALTER TABLE—adding a new column to book table

SQL>alter table book add pages varchar(20);

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	BOOK ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2	TITLE	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3	LANGUAGE ID	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4	MRP	NUMBER(10,0)	Yes	(null)	4	(null)
5	PUBLISHER ID	VARCHAR2(10 BYTE)	Yes	(null)	5	(null)
6	PUBLISHED DATE	VARCHAR2(20 BYTE)	Yes	(null)	6	(null)
7	VOLUME	VARCHAR2(20 BYTE)	Yes	(null)	7	(null)
8	STATUS	VARCHAR2(10 BYTE)	Yes	(null)	8	(null)
9	PAGES	VARCHAR2(20 BYTE)	Yes	(null)	9	(null)

2)ALTER TABLE—modify the data type of a column in the member table

SQL>alter table members modify date_of_join date;

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	MEMBER ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2	MEMBERNAME	VARCHAR2(30 BYTE)	Yes	(null)	2	(null)
3	BRANCH CODE	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4	ROLL NUMBER	VARCHAR2(10 BYTE)	Yes	(null)	4	(null)
5	PHONE NUMBER	NUMBER(20,0)	Yes	(null)	5	(null)
6	EMAIL ID	VARCHAR2(50 BYTE)	Yes	(null)	6	(null)
7	DATE OF JOIN	DATE	Yes	(null)	7	(null)
8	STATUS	VARCHAR2(20 BYTE)	Yes	(null)	8	(null)

3)TRUNCATE TABLE—remove all records from publisher table

SQL>SELECT * FROM USER_CONSTRAINTS WHERE TABLE_NAME ='PUBLISHER';

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	SEARCH_CONDITION_VC	R_OWNER
C22CSA05	SYS_C0059359	P	PUBLISHER	(null)	(null)	(null)

SQL>SELECT * FROM USER_CONSTRAINTS WHERE TABLE_NAME ='BOOK';

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	SEARCH_CONDITION_VC	R_OWNER	R_CONSTRAINT_NAME	DELE
C22CSA05	SYS_C0059444	P	BOOK	(null)	(null)	(null)	(null)	(null)
C22CSA05	SYS_C0059445	R	BOOK	(null)	(null)	C22CSA05	SYS_C0059415	NO ACT
C22CSA05	SYS_C0059446	R	BOOK	(null)	(null)	C22CSA05	SYS_C0059359	NO ACT

SQL>ALTER TABLE BOOK DISABLE CONSTRAINT SYS_C0059446;

table BOOK altered.

SQL>TRUNCATE TABLE PUBLISHER;

table PUBLISHER truncated.

SQL>Select * from publisher;

PUBLIS...	NAME	ADDRESS

4)DROP TABLE—delete the author table from the database

SQL>drop table author;

SQL>desc author;

```
table AUTHOR dropped.
desc author
ERROR:
-----
ERROR: object AUTHOR does not exist
```

5)RENAME TABLE—change the name of late_fee_rule table to fine table

SQL>alter table late_fee_rule rename to fine_table;

SQL>desc fine_table;

```
table LATE_FEE_RULE altered.  
desc fine_table  
Name      Null Type  
-----  
FROM_DAYS  NUMBER(10)  
TO_DAYS    NUMBER(20)  
AMOUNT     NUMBER(20)
```