UID: 2018450002

DBMS PRACTICAL 1

1) DDL commands: create, desc, alter, drop, rename

SQL> create table student_01 (rollno number(10), s_name varchar2(20), city varchar2(33));

Table created.

SQL> desc student_02;

Name Null? Type

ROLLNO NUMBER(10)

S_NAME VARCHAR2(20)

CITY VARCHAR2(33)

SQL> alter table student 02 add constraint p 02 primary key(rollno); //adding primary key

Table altered.

SQL> alter table student_02 add constraint c2 check(rollno<20); //adding constraint

Table altered.

SQL> desc student_02; //displaying contents of the table

Name Null? Type

ROLLNO NOT NULL NUMBER(10)
S_NAME VARCHAR2(20)
CITY VARCHAR2(33)

SQL> alter table student 02 add constraint u2 unique (city); //adding a unique key

Table altered.

SQL> create table student 002 (sub1 number(20), sub2 number(15));

Table created.

SQL> desc student 002;

Name Null? Type

SUB1 NUMBER(20) SUB2 NUMBER(15)

SQL> alter table student_002

2 add rollno number(20);

UID: 2018450002

Table altered.

SQL> desc student_002;

Name Null? Type

NUMBER(20) SUB1 NUMBER(15) SUB2 ROLLNO NUMBER(20)

SQL> alter table student 001 drop column rollno;

Table altered.

SQL> desc student_001;

Name Null? Type

SUB1 NUMBER(20) SUB2 NUMBER(15)

SQL> alter table student 002 add constraint f2 foreign key (sub1) references student 02; //adding foreign key

Table altered.

SQL> alter table student 02 rename column rollno to r no;

Table altered.

SQL> desc student_1;

Null? Type Name

NOT NULL NUMBER(10)
VARCHAR2/2 R_NO S_NAME CITY

SQL> rename student_02 to student_2; //renaming

Table renamed.

2) DML Commands: insert, update, delete

SQL>/

Enter value for r_no: 1

Enter value for s_name: 'nishita' Enter value for city: 'patna'

old 1: insert into student_01 values (&r_no, &s_name, &city) new 1: insert into student_01 values (1, 'nishita', 'patna')

UID: 2018450002

1 row created.

SQL> insert into student_2 values (&r_no, &s_name, &city);

Enter value for r_no: 2

Enter value for s_name: 'hammad'

Enter value for city: 'mumbai'

old 1: insert into student_02 values (&r_no, &s_name, &city) new 1: insert into student_01 values (2, 'hammad', 'mumbai')

1 row created.

SQL> select * from student_2;

R_NO S_NAME	CITY
 1 nishita	patna
2 hammad	mumbai

3) TCL Commands: commit, rollback

SQL> commit;

Commit complete.

4) DCL Commands: grant, revoke

SQL> create user Hammad identified by hammad123; //creating new user

User created.

SQL> select * from ALL_USERS; //displaying all the users using MySQL

 SI_INFORMTN_SCHEMA
 45 11-JUL-19

 ORDPLUGINS
 44 11-JUL-19

 ORDSYS
 43 11-JUL-19

 OLAPSYS
 47 11-JUL-19

 ANONYMOUS
 39 11-JUL-19

 XDB
 38 11-JUL-19

UID: 2018450002

USERNAME	USER_ID CREATED
CTXSYS	36 11-JUL-19
EXFSYS	34 11-JUL-19
WMSYS	25 11-JUL-19
DBSNMP	24 11-JUL-19
TSMSYS	21 11-JUL-19
DMSYS	35 11-JUL-19
DIP	19 11-JUL-19
OUTLN	11 11-JUL-19
SYSTEM	5 11-JUL-19
SYS	0 11-JUL-19

21 rows selected.

SQL> GRANT create session to Hammad; //granting session to new user nishita

Grant succeeded.

SQL> grant insert, select on student_2 to Hammad; //giving nishita permission to insert

and view table contents

Grant succeeded.

SQL> revoke all on student_2 from Hammad; //revoking insertion and selection

access

Revoke succeeded.

SQL> revoke create session from Hammad; //revoking session

Revoke succeeded.

SQL> create table stud_1 as select * from student_2;

Table created.

SQL> desc stud_1;

Name	Null? Type
R_NO	NUMBER(10)
S_NAME	VARCHAR2(20)
CITY	VARCHAR2(33)

SQL> create sequence sq_1

- 2 start with 1
- 3 maxvalue 15

```
UID: 2018450002
 4 increment by 1
 5 cache 20;
Sequence created.
SQL> insert into stud_1 values(sq_1.nextval, 'diksha', 'borivali');
1 row created.
SQL> select * from stud_1;
   R_NO S_NAME CITY
    1 nishita patna
2 hammad mumbai
4 Maulika Virar
1 diksha borivali
SQL> rollback;
Rollback complete.
SQL> select * from stud_2;
   R_NO S_NAME CITY
    1 nishita patna
2 hammad mumbai
4 Maulika Virar
SQL> drop sequence sq_1;
Sequence dropped.
SQL> create sequence sq_1
 2 start with 5
 3 maxvalue 15
 4 increment by 1
 5 cache 20;
Sequence created.
SQL> insert into stud_2 values(sq_1.nextval, 'riya', 'borivali');
1 row created.
SQL> desc stud_2;
```

Null? Type

Name

UID: 2018450002 R_NO NUMBER(10) S_NAME VARCHAR2(20) CITY VARCHAR2(33) SQL> select * from stud_2; R_NO S_NAME CITY 1 nishita mumbai 2 hammad jaipur 4 Maulika Virar 5 riya borivali SQL> commit; Commit complete. SQL> create view stud_2_view_1 as select r_no, s_name from stud_2; //creating view View created. SQL> insert into stud 2 view 1 values(6, 'diksha'); 1 row created. SQL> select * from stud_2_view_1; R_NO S_NAME 1 nishita 2 hammad 4 Maulika 5 riya 6 diksha SQL> commit; Commit complete. SQL> desc stud 2; Name Null? Type R NO NUMBER(10) VARCHAR2(20) S_NAME CITY VARCHAR2(33)

Name: Hammad Ansari

SQL> select * from stud_2;

UID: 2018450002

R_NO S_NAME	CITY	
1 nishita 2 hammad 4 Maulika 5 riya 6 diksha	mumbai jaipur Virar borivali	

SQL> commit;

Commit complete.

SQL> alter table student_02 drop constraint f2;

Table altered.

SQL> desc student_02;

Name	Null? Type	
SUB1	NUMBER(20)	
SUB2	NUMBER(15)	

SQL> alter table student_02

2 add r_no number(15);

Table altered.

SQL> desc student_02;

Name	Null? Type 	
SUB1	NUMBER(20)	
SUB2	NUMBER(15)	
R_NO	NUMBER(15)	

SQL> spool off;

5) Using DML,TCL,DCL and DDL on tables borrow_02,customer_02, deposit_02 and branch_02

SQL> create table deposit_02(acno varchar2(5), cname varchar2(18), bname varchar2(18), amount number(8,2));

Table created.

UID: 2018450002

SQL> desc deposit_02

Null? Type Name

ACNO VARCHAR2(5) CNAME VARCHAR2(18) BNAME VARCHAR2(18) AMOUNT NUMBER(8,2)

SQL> create table Branch_02(bname varchar2(20),city varchar2(20));

Table created.

SQL> create table customer_02(cname varchar2(20),city varchar2(20));

Table created.

SQL> create table borrow_02(loanno varchar2(5), cname varchar2(18), bname varchar2(18), amount number(8,2));

Table created.

SQL> desc Branch 02;

ranch_02; Null? Type Name

BNAME

VARCHAR2(20) VARCHAR2(20) CITY

SQL> desc customer_02;

Name Null? Type

VARCHAR2(20) CNAME VARCHAR2(20) CITY

SQL> desc borrow 02;

Name Null? Type

LOANNO VARCHAR2(5) CNAME VARCHAR2(18) BNAME VARCHAR2(18) AMOUNT NUMBER(8,2)

SQL> alter table deposit_02 add constraint pkk1 primary key (acno);

Table altered.

SQL> desc deposit_02;

Null? Type Name

UID: 2018450002

ACNO NOT NULL VARCHAR2(5)
CNAME VARCHAR2(18)
BNAME VARCHAR2(18)
AMOUNT NUMBER(8,2)

SQL> alter table deposit_02 modify (cname not null, bname not null);

Table altered.

SQL> desc deposit 02;

Name Null? Type

ACNO NOT NULL VARCHAR2(5)
CNAME NOT NULL VARCHAR2(18)
BNAME NOT NULL VARCHAR2(18)
AMOUNT NUMBER(8,2)

SQL> alter table deposit_02 add constraint ch1 check(amount<1000);

Table altered.

SQL> alter table deposit_02 add adate date;

Table altered.

SQL> desc deposit_02;

Name Null? Type

ACNO NOT NULL VARCHAR2(5)
CNAME NOT NULL VARCHAR2(18)
BNAME NOT NULL VARCHAR2(18)
AMOUNT NUMBER(8,2)

ADATE DATE

SQL> alter table branch_02 add constraint pk2 primary key (bname);

Table altered.

SQL> alter table customer_02 add constraint pk3 primary key (cname);

Table altered.

SQL> alter table borrow_02 add constraint pk4 primary key (loanno);

Table altered.

SQL> alter table borrow_02 modify (cname not null, bname not null);

Name: Hammad Ansari UID: 2018450002 Table altered. SQL> desc borrow_02; Name Null? Type LOANNO NOT NULL VARCHAR2(5) CNAME NOT NULL VARCHAR2(18) BNAME NOT NULL VARCHAR2(18) AMOUNT NUMBER(8,2) SQL> alter table deposit_02 add constraint fk1 foreign key (bname) references branch_02; Table altered. SQL> alter table deposit_02 add constraint fk2 foreign key (cname) references customer_02; Table altered. SQL> alter table borrow_02 add constraint fk3 foreign key (cname) references customer_02; Table altered. SQL> alter table borrow_02 add constraint fk4 foreign key (bname) references branch_02; Table altered. SQL> insert into branch_02 (bname, city) values ('VRCE','NAGPUR'); 1 row created. SQL> insert into branch_02 values('AJNI','NAGPUR'); 1 row created. SQL> insert into branch_02 values('KAROLBAGH; 'DELHI'); SQL> insert into branch_02 values ('KAROLBAGH','DELHI'); 1 row created. SQL> insert into branch_02 values ('CHANDNI', 'DELHI');

1 row created.

SQL> insert into branch_02 values ('DHARAMPETH', 'NAGPUR');

```
UID: 2018450002
1 row created.
SQL> insert into branch_02 values ('M.G.ROAD', 'BANGALORE');
1 row created.
SQL> insert into branch_02 values ('$bname','$city');
1 row created.
SQL>/
Enter value for bname: 'ANDHERI'
Enter value for city: 'MUMBAI'
old 1: insert into branch_02 values (&bname,&city)
new 1: insert into branch_02 values ('ANDHERI', 'MUMBAI')
1 row created.
SQL>/
Enter value for bname: 'VIRAR'
Enter value for city: 'MUMBAI'
old 1: insert into branch_02 values (&bname,&city)
new 1: insert into branch_02 values ('VIRAR','MUMBAI')
1 row created.
SQL>/
Enter value for bname: 'NEHRU PLACE'
Enter value for city: 'DELHI'
old 1: insert into branch_02 values (&bname,&city)
new 1: insert into branch_02 values ('NEHRU PLACE','DELHI')
1 row created.
SQL>/
Enter value for bname: 'POWAI'
Enter value for city: 'MUMBAI'
old 1: insert into branch_02 values (&bname,&city)
new 1: insert into branch_02 values ('POWAI','MUMBAI')
1 row created.
SQL> select * from branch_02;
BNAME
                CITY
```

UID: 2018450002

VRCE NAGPUR
AJNI NAGPUR
KAROLBAGH DELHI
CHANDNI DELHI

DHARAMPETH NAGPUR M.G.ROAD BANGALORE

\$bname \$city
ANDHERI MUMBAI
VIRAR MUMBAI
NEHRU PLACE DELHI
POWAI MUMBAI

11 rows selected.

SQL> delete from branch_02 where bname = '\$bname';

1 row deleted.

SQL> select * from branch_02;

BNAME CITY

VRCE NAGPUR
AJNI NAGPUR
KAROLBAGH DELHI
CHANDNI DELHI

DHARAMPETH NAGPUR
M.G.ROAD BANGALORE
ANDHERI MUMBAI
VIRAR MUMBAI
NEHRU PLACE DELHI
POWAI MUMBAI

10 rows selected.

SQL> desc customer_02;

Name Null? Type

CNAME NOT NULL VARCHAR2(20)

CITY VARCHAR2(20)

SQL> insert into customer_02 values (&cname, &city);

Enter value for cname: 'ANIL' Enter value for city: 'KOLKATA'

old 1: insert into customer_02 values (&cname, &city)
new 1: insert into customer_02 values ('ANIL', 'KOLKATA')

Name: Hammad Ansari UID: 2018450002 1 row created. SQL>/ Enter value for cname: 'SUNIL' Enter value for city: 'DELHI' old 1: insert into customer_02 values (&cname, &city) new 1: insert into customer_02 values ('SUNIL', 'DELHI') 1 row created. SQL>/ Enter value for cname: 'MEHUL' Enter value for city: 'BARODA' old 1: insert into customer_02 values (&cname, &city) new 1: insert into customer_02 values ('MEHUL', 'BARODA') 1 row created. SQL>/ Enter value for cname: 'MANDAR' Enter value for city: 'PATNA' old 1: insert into customer 02 values (&cname, &city) new 1: insert into customer_02 values ('MANDAR', 'PATNA') 1 row created. SQL>/ Enter value for cname: 'MADHURI' Enter value for city: 'NAGPUR' old 1: insert into customer_02 values (&cname, &city) new 1: insert into customer_02 values ('MADHURI', 'NAGPUR') 1 row created. SQL>/ Enter value for cname: 'PRAMOD' Enter value for city: 'NAGPUR' old 1: insert into customer_02 values (&cname, &city) new 1: insert into customer_02 values ('PRAMOD', 'NAGPUR') 1 row created. SQL>/ Enter value for cname: 'SANDIP'

Enter value for city: 'SURAT'

old 1: insert into customer_02 values (&cname, &city)
new 1: insert into customer_02 values ('SANDIP', 'SURAT')

UID: 2018450002

1 row created.

SQL>/

Enter value for cname: 'SHIVANI' Enter value for city: 'MUMBAI'

old 1: insert into customer_02 values (&cname, &city)

new 1: insert into customer_02 values ('SHIVANI', 'MUMBAI')

1 row created.

SQL>/

Enter value for cname: 'KRANTI' Enter value for city: 'MUMBAI'

old 1: insert into customer_02 values (&cname, &city)

new 1: insert into customer_02 values ('KRANTI', 'MUMBAI')

1 row created.

SQL>/

Enter value for cname: 'NAREN' Enter value for city: 'MUMBAI'

old 1: insert into customer_02 values (&cname, &city)

new 1: insert into customer_02 values ('NAREN', 'MUMBAI')

1 row created.

CNAME

SQL> select * from customer_02;

CITY

CIVAIVIE	CITY
ANIL	KOLKATA
SUNIL	DELHI
MEHUL	BARODA
MANDAR	PATNA
MADHURI	NAGPUR
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	MUMBAI
KRANTI	MUMBAI
NAREN	MUMBAI

10 rows selected.

SQL> alter table deposit_02 add constraint check1 check(amount>1000);

Table altered.

SQL> alter table deposit_02 drop constraint check1;

Name: Hammad Ansari UID: 2018450002 Table altered. SQL> alter table deposit_02 drop constraint ch1; Table altered. SQL> commit; Commit complete. SQL> alter table deposit_02 add constraint ch1 check(amount >= 1000); Table altered. SQL> insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate); Enter value for acno: '100' Enter value for bname: 'ANIL' Enter value for cname: 'VRCE' Enter value for amount: 1000.00 Enter value for adate: '1-MAR-95' old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('100', 'ANIL', 'VRCE', 1000.00, '1-MAR-95') 1 row created. SQL>/ Enter value for acno: '101' Enter value for bname: 'SUNIL' Enter value for cname: 'AJNI' Enter value for amount: 5000.0 Enter value for adate: '4-JAN-96' old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('101', 'SUNIL', 'AJNI', 5000.0, '4-JAN-96') 1 row created. SQL>/ Enter value for acno: '102' Enter value for bname: 'MEHUL' Enter value for cname: 'KAROLBAGH' Enter value for amount: 3500.00 Enter value for adate: '17-NOV-95'

old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate)

new 1: insert into deposit_02 values('102', 'MEHUL', 'KAROLBAGH', 3500.00, '17-NOV-95')

1 row created.

UID: 2018450002

SQL>/

Enter value for acno: '104'

Enter value for bname: 'MADHURI' Enter value for cname: 'CHANDNI' Enter value for amount: 1200.00 Enter value for adate: '17-DEC-95'

old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate)

new 1: insert into deposit_02 values('104', 'MADHURI', 'CHANDNI', 1200.00, '17-DEC-95')

1 row created.

SQL>/

Enter value for acno: '105'

Enter value for bname: 'PRAMOD' Enter value for cname: 'M.G.ROAD' Enter value for amount: 3000.0 Enter value for adate: '27-MAR-96'

old 1: insert into deposit 02 values(&acno, &bname, &cname, &amount, &adate)

new 1: insert into deposit_02 values('105', 'PRAMOD', 'M.G.ROAD', 3000.0, '27-MAR-96')

1 row created.

SQL>/

Enter value for acno: '106'
Enter value for bname: 'SANDIP'
Enter value for cname: 'ANDHERI'
Enter value for amount: 2000.00
Enter value for adate: '31-MAR-96'

old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('106', 'SANDIP', 'ANDHERI', 2000.00, '31-MAR-96')

1 row created.

SQL>/

Enter value for acno: '107'

Enter value for bname: 'SHIVANI' Enter value for cname: 'VIRAR' Enter value for amount: 1000.00 Enter value for adate: '5-SEP-95'

old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('107', 'SHIVANI', 'VIRAR', 1000.00, '5-SEP-95')

1 row created.

SQL>/

Enter value for acno: '108'
Enter value for bname: 'KRANTI'
Enter value for cname: 'NEHRU PLACE'

Name: Hammad Ansari
UID: 2018450002
Enter value for amount: 5000.00 Enter value for adate: '2-JUL-95' old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('108', 'KRANTI', 'NEHRU PLACE', 5000.00, '2-JUL-95')
1 row created.
SQL> / Enter value for acno: '109' Enter value for bname: 'NAREN' Enter value for cname: 'POWAI' Enter value for amount: 7000.00 Enter value for adate: '10-AUG-95' old 1: insert into deposit_02 values(&acno, &bname, &cname, &amount, &adate) new 1: insert into deposit_02 values('109', 'NAREN', 'POWAI', 7000.00, '10-AUG-95')
1 row created.
SQL> COMMIT;
Commit complete.
6) INBUILT FUNCTIONS
6) INBUILT FUNCTIONS • Arithmetic Operator
Arithmetic Operator
Arithmetic Operator 1. Multiplication Operator
 Arithmetic Operator Multiplication Operator SQL> select 1234 * 123 from dual;
 Arithmetic Operator 1. Multiplication Operator SQL> select 1234 * 123 from dual; 1234*123
 Arithmetic Operator 1. Multiplication Operator SQL> select 1234 * 123 from dual; 1234*123 151782
 Arithmetic Operator 1. Multiplication Operator SQL> select 1234 * 123 from dual; 1234*123 151782 2. Addition Operator

UID: 2018450002
SQL> select (amount)+100 from borrow_02;
(AMOUNT)+100
1101
5100
3100
2100
8100
3100
6 rows selected.
3. Subtraction Operator
SQL> select 1234 - 123 from dual;
1234-123
1111
4. Division Operator
SQL> select 1234 / 123 from dual;
3QL 3Cleet 1234 / 123 Holli dudi,
1234/2
617
5. Unary Negation Operator

SQL> select -(amount) from borrow_02;

UID: 2018450002				
-(AMOUNT)				
-1	001			
-5	000			
-3	000			
-2	000			
-8	000			
-3	000			
6 rov	ws selected.			
•	Display Syste	m Date		
SQL>	select sysda	te from dual;		
	·			
SYSD	ATE			
22-JI	JL-19			
•	Relational O	<u>perators</u>		
Greater Than Operator				
SQL> select * from borrow_02 where amount>=1000;				
LOAI	NN CNAME	BNAME	AN	10UNT
201			4004	
		VRCE	1001	
206	MEHUL	AJNI	5000	

UID: 2018450002

311 SUNIL DHARAMPETH 3000
321 MADHURI ANDHERI 2000
375 PRAMOD VIRAR 8000
481 KRANTI NEHRU PLACE 3000

6 rows selected.

2. Not Equal to Operator

SQL> select * from borrow_02 where amount<>1001;

LOAN	NN CNAME	BNAME	AMOUNT
206	MEHUL	AJNI	5000
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRAMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000

SQL> select * from borrow_02 where cname<>'MEHUL';

LOANN CNAME BNAME		AMOUNT	
201	ANIL	VRCE	1001
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRAMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000

Logical Operators

LUD: 2019/E0002			
UID: 2018450002			
1. OR Operator			
SQL> select * from borrow_02 where cname='MEHUL' OR cname='SUNIL';			
LOANN CNAME BNAME AMOUNT			
206 MEHUL AJNI 5000			
311 SUNIL DHARAMPETH 3000			
2. IN Operator			
SQL> select * from borrow_02 where cname in ('MEHUL', 'SUNIL');			
LOANN CNAME BNAME AMOUNT			
206 MEHUL AJNI 5000			
311 SUNIL DHARAMPETH 3000			
3. AND Operator			
SQL> select * from borrow_02 where CNAME='MEHUL' AND BNAME='AJNI';			
LOANN CNAME BNAME AMOUNT			
206 MEHUL AJNI 5000			
200 WENCE ASINI 5000			
4. NOT Operator			
SQL> select * from borrow_02 where CNAME NOT IN 'MEHUL';			
LOANN CNAME BNAME AMOUNT			
201 ANIL VRCE 1001			

UID: 2	2018450002		
311	SUNIL	DHARAMPETH	3000
321	MADHURI	ANDHERI	2000
375	PRAMOD	VIRAR	8000
481	KRANTI	NEHRU PLACE	3000
<u>• N</u>	Math Operat	<u>ors</u>	
1. A	Absolute fund	ction	
SQL>	SELECT ABS(AMOUNT) FROM	borrow_02;
ABS(A	AMOUNT)		
10	001		
50	000		
30	000		
20	000		
80	000		
30	000		
6 row	s selected.		
SQL>	SELECT ABS	(AMOUNT) AS AN	IT FROM borrow_02;
Α	MT 		
10	001		
50	000		
30	000		
20	000		
80	000		
30	000		

Name: Hammad Ansari
UID: 2018450002
6 rows selected.
2. Ceil Function
SQL> SELECT CEIL(15.235) FROM DUAL;
CEIL(15.235)
16
3. Floor Function
SQL> SELECT FLOOR(15.235) FROM DUAL;
FLOOR(15.235)
15
4. Truncate Function
SQL> SELECT TRUNC(23.456,2) FROM DUAL;
TRUNC(23.456,2)
23.45
5. Square Root Function
SQL> SELECT SQRT(25) FROM DUAL;
SQRT(25)
5
 Character Functions

Name: Hammad Ansari
UID: 2018450002
1. ASCII function
SQL> SELECT ASCII('A') FROM DUAL;
ASCII('A')
65
SQL> SELECT ASCII('ABC') FROM DUAL;
ASCII('ABC')
65
2. Character Function
SQL> SELECT CHR(65) FROM DUAL;
С
-
A
3. Initial Caps Function
SQL> SELECT INITCAP('heelloo') FROM DUAL;
INITCAP
Heelloo

• String Functions

Name: Hammad Ansari
UID: 2018450002
1. Lower Function
SQL> SELECT LOWER('HEELLOO') FROM DUAL;
LOWER('
heelloo
2. LPAD function
SQL> SELECT LPAD('ABC',10,'*') FROM DUAL;
LPAD('ABC'
*****ABC
3. LTRIM Function
SQL> SELECT LTRIM('nishita',2) FROM DUAL;
LTRIM
shita
Hello World
4. RTRIM Function
SQL> SELECT RTRIM('nishita',2) FROM DUAL;
RTRIM
nishi

UID: 2018450002
5. Sub string Function
SQL> SELECT SUBSTR('NISHITA',2,3) FROM DUAL;
SUB
ISH
6. INSTR Function
SQL> select INSTR('Corporate Floor','or', -3, 2) from dual;
INSTR('CORPORATEFLOOR','OR',-3,2)
2
7. Concatenation Function
SQL> SELECT CONCAT(CNAME,CITY) FROM customer_02;
CONCAT(CNAME,CITY)
ANILKOLKATA
SUNILDELHI
MEHULBARODA
MANDARPATNA
MADHURINAGPUR
PRAMODNAGPUR
SANDIPSURAT

Name: Hammad Ansari
UID: 2018450002
SHIVANIMUMBAI
KRANTIMUMBAI
NARENMUMBAI
10 rows selected.
SQL> SELECT CONCAT(CNAME,CONCAT(' ',CITY)) FROM customer_02;
CONCAT(CNAME,CONCAT(",CITY))
ANIL KOLKATA
ANIL KOLKATA SUNIL DELHI
SUNIL DELHI
SUNIL DELHI MEHUL BARODA
SUNIL DELHI MEHUL BARODA MANDAR PATNA
SUNIL DELHI MEHUL BARODA MANDAR PATNA MADHURI NAGPUR
SUNIL DELHI MEHUL BARODA MANDAR PATNA MADHURI NAGPUR PRAMOD NAGPUR
SUNIL DELHI MEHUL BARODA MANDAR PATNA MADHURI NAGPUR PRAMOD NAGPUR SANDIP SURAT
SUNIL DELHI MEHUL BARODA MANDAR PATNA MADHURI NAGPUR PRAMOD NAGPUR SANDIP SURAT SHIVANI MUMBAI
SUNIL DELHI MEHUL BARODA MANDAR PATNA MADHURI NAGPUR PRAMOD NAGPUR SANDIP SURAT SHIVANI MUMBAI KRANTI MUMBAI

1. ADD_MONTHS Function

UID: 2018450002
SQL> SELECT ADD_MONTHS('22-JUL-2019',2) FROM DUAL;
ADD_MONTH
22-SEP-19
2. LAST_DAY Function
SQL> SELECT LAST_DAY(SYSDATE) FROM DUAL; LAST_DAY(
31-JUL-19
3. MONTHS_BETWEEN Function
SQL> SELECT MONTHS_BETWEEN(SYSDATE,'22-SEP-2019') FROM DUAL;
MONTHS_BETWEEN(SYSDATE,'22-SEP-2019')
-2
4. NEXT_DAY Function
SQL> SELECT NEXT_DAY(SYSDATE,'SUNDAY') FROM DUAL;
NEXT_DAY(

Name: Hammad Ansari
UID: 2018450002
 28-JUL-19
6 rows selected.
● Extra Functions
1. ROWID function
SQL> SELECT ROWID,CNAME FROM borrow_02;
ROWID CNAME
AAAMiNAABAAAOs6AAA ANIL
AAAMiNAABAAAOs6AAB MEHUL
AAAMiNAABAAAOs6AAC SUNIL
AAAMiNAABAAAOs6AAD MADHURI
AAAMinaabaaaos6aae pramod
AAAMINAABAAAOs6AAF KRANTI
6 rows selected.
2. ROWNUM Function
SQL> SELECT ROWNUM, CNAME FROM borrow_02;
ROWNUM CNAME
1 ANIL
2 MEHUL
3 SUNIL
4 MADHURI

UID:	2018450002					
	5 PRAMOD					
	6 KRANTI					
6 rov	ws selected.					
•	Aggregate Func	<u>tions</u>				
1.	Max Function					
SQL>	SELECT MAX(A	MOUNT) FROM	1 borrow_02;			
MAX	(AMOUNT)					
8	3000					
SQL>	SELECT * FRON	∕l borrow_02 W	/HERE AMOUNT=(S	ELECT MAX(AMC	OUNT) FROM borrow_0)2);
	NN CNAME					
	PRAMOD					
2.	Min Function					
SQL>	SELECT MIN(AN	MOUNT) FROM	l borrow_02;			
MIN	(AMOUNT)					
1	1000					

3. Average Function

Name: Hammad Ansari
UID: 2018450002
SQL> SELECT AVG(AMOUNT) FROM borrow_02;
AVG(AMOUNT)
3666.83333
4. Count Function
SQL> SELECT COUNT(AMOUNT) FROM borrow_02;
COUNT(AMOUNT)
6
5. Sum Function
SQL> SELECT SUM(AMOUNT) FROM borrow_02;
SUM(AMOUNT)
22001
 Concatenation Operator
SQL> SELECT CNAME ' ' CITY FROM customer_02;
CNAME " CITY
ANIL KOLKATA
SUNIL DELHI
MEHUL BARODA
MANDAR PATNA

Name: Hammad Ansari
UID: 2018450002
MADHURI NAGPUR
PRAMOD NAGPUR
SANDIP SURAT
SHIVANI MUMBAI
KRANTI MUMBAI
NAREN MUMBAI
10 rows selected.
• NVL and NVL2 commands:
SQL> select nvl(100,NULL) from dual;
NVL(100,NULL)
100
SQL> select nvl(200,100) from dual;
SQL> Select fivi(200,100) from dual,
NVL(200,100)
200
200
SQL> select nvl(100,200) from dual;
NVL(100,200)
100

UID: 2018450002