

Principles of Data-Base systems

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Complete commands for the assignment

create table July2020(State varchar2(20) , Population number(20) , Covidpositive number(20) , Discharged number(20) , Died number(20))
insert into July2020 values('TamilNadu',1000,250,100,7)
insert into July2020 values('Kerala',100,50,10,2)
insert into July2020 values('Karnataka',750,150,80,5)
insert into July2020 values('AndhraPradesh',890,75,30,9)
insert into July2020 values('Telangana',500,45,12,3)
select * from July2020
alter table July2020 drop column Discharged;
select * from July2020
alter table July2020 add (NumberofDischargedpatients varchar2(3))
select * from July2020
delete from July2020 where Died='9';
select * from July2020
update July2020 set Numberofdischargedpatients='-ve'
select *from July2020
update July2020 set Numberofdischargedpatients='+ve' where died in(2,5)
select *from July2020
rename July2020 to April2020
desc April2020
alter table April2020 rename column died to notalive;
select *from April2020
truncate table April2020;
select * from April2020

1) Creating and Inserting tables into the data-base

The screenshot shows the SQL Commands window in Oracle Application Express. The SQL script executed is as follows:

```
create table July2020(State varchar2(20) , Population number(20) , Covidpositive number(20) , Discharged number(20) , Died number(20))

desc July2020;

insert into July2020 values('TamilNadu',1000,250,100,7)
insert into July2020 values('Kerala',100,50,10,2)
insert into July2020 values('Karnataka',750,150,80,5)
insert into July2020 values('AndhraPradesh',890,75,30,9)
insert into July2020 values('Telangana',500,45,12,3)

select * from July2020
```

The results of the query are displayed in a table with 5 rows:

STATE	POPULATION	COVIDPOSITIVE	DISCHARGED	DIED
TamilNadu	1000	250	100	7
Kerala	100	50	10	2
Karnataka	750	150	80	5
AndhraPradesh	890	75	30	9
Telangana	500	45	12	3

5 rows returned in 0.02 seconds [CSV Export](#)

Application Express 2.1.0.00.39
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2) Dropping the column 'Discharged'

The screenshot shows the SQL Commands window in Oracle Application Express. The SQL script executed is as follows:

```
alter table July2020 drop column Discharged;
select * from July2020
```

The results of the query are displayed in a table with 5 rows:

STATE	POPULATION	COVIDPOSITIVE	DIED
TamilNadu	1000	250	7
Kerala	100	50	2
Karnataka	750	150	5
AndhraPradesh	890	75	9
Telangana	500	45	3

5 rows returned in 0.00 seconds [CSV Export](#)

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3) Adding a new column 'Numberofpatientsdied'

The screenshot shows the SQL Developer interface. The 'SQL Commands' window contains the following SQL code:

```
alter table July2020 add (NumberofDischargedpatients varchar2(3))
select * from July2020
```

The 'Results' window displays the following table:

STATE	POPULATION	COVIDPOSITIVE	DIED	NUMBEROFDISCHARGEDPATIENTS
TamilNadu	1000	250	7	-
Kerala	100	50	2	-
Karnataka	750	150	5	-
AndhraPradesh	890	75	9	-
Telangana	500	45	3	-

5 rows returned in 0.00 seconds

3)Deleting a specific row

The screenshot shows the SQL Developer interface. The 'SQL Commands' window contains the following SQL code:

```
delete from July2020 where Died='9';
select * from July2020
```

The 'Results' window displays the following table:

STATE	POPULATION	COVIDPOSITIVE	DIED	NUMBEROFDISCHARGEDPATIENTS
TamilNadu	1000	250	7	-
Kerala	100	50	2	-
Karnataka	750	150	5	-
Telangana	500	45	3	-

4 rows returned in 0.00 seconds

4) Specifying a particular column value with a single value

The screenshot shows the SQL Commands window in Oracle Application Express. The query entered is:

```
update July2020 set Numberofdischargedpatients='-ve'  
select *from July2020
```

The results are displayed in a table with 4 rows:

STATE	POPULATION	COVIDPOSITIVE	DIED	NUMBEROFDISCHARGEDPATIENTS
TamilNadu	1000	250	7	-ve
Kerala	100	50	2	-ve
Karnataka	750	150	5	-ve
Telangana	500	45	3	-ve

4 rows returned in 0.00 seconds

5) Altering the row value

The screenshot shows the SQL Commands window in Oracle Application Express. The query entered is:

```
update July2020 set Numberofdischargedpatients='+ve' where died in(2,5)  
select *from July2020
```

The results are displayed in a table with 4 rows:

STATE	POPULATION	COVIDPOSITIVE	DIED	NUMBEROFDISCHARGEDPATIENTS
TamilNadu	1000	250	7	-ve
Kerala	100	50	2	+ve
Karnataka	750	150	5	+ve
Telangana	500	45	3	-ve

4 rows returned in 0.00 seconds

6) Renaming the table name

The screenshot shows a web browser window with the URL `127.0.0.1:8080/apex/f?p=4500:1003:3620312073337262::NO::`. The page title is "SQL Commands". The user is "SYSTEM". The page shows the "SQL Commands" section with a "Save" button and a "Run" button. The command entered is:

```
rename July2020 to April2020
desc April2020
```

Below the command, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Describe" tab is selected, showing the structure of the table "APRIL2020".

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APRIL2020	STATE	Varchar2	20	-	-	-	✓	-	-
	POPULATION	Number	-	20	0	-	✓	-	-
	COVIDPOSITIVE	Number	-	20	0	-	✓	-	-
	DIED	Number	-	20	0	-	✓	-	-
	NUMBEROFDISCHARGEDPATIENTS	Varchar2	3	-	-	-	✓	-	-

1 - 5

7) Renaming the column name

The screenshot shows the same web browser window as before. The command entered is:

```
alter table April2020 rename column died to notalive;
select *from April2020
```

Below the command, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is selected, showing the data returned by the query.

STATE	POPULATION	COVIDPOSITIVE	NOTALIVE	NUMBEROFDISCHARGEDPATIENTS
TamilNadu	1000	250	7	-ve
Kerala	100	50	2	+ve
Karnataka	750	150	5	+ve
Telangana	500	45	3	-ve

4 rows returned in 0.00 seconds [CSV Export](#)

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8) Deleting the data's of the table

The screenshot shows a web browser window with the URL `127.0.0.1:8080/apex/f?p=4500:1003:3620312073337262::NO::`. The page title is "SQL Commands". The user is "SYSTEM". The breadcrumb is "Home > SQL > SQL Commands". The "Autocommit" checkbox is checked, and the "Display" dropdown is set to "10". The "Save" and "Run" buttons are visible. The SQL command entered is:

```
truncate table April2020;  
select * from April2020
```

Below the command area, the "Results" tab is selected, and it displays "no data found". The footer shows "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved.".

The screenshot shows the same web browser window. The SQL command entered is:

```
desc April2020
```

Below the command area, the "Describe" tab is selected, and it displays the table structure for "APRIL2020".

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APRIL2020	STATE	Varchar2	20	-	-	-	✓	-	-
	POPULATION	Number	-	20	0	-	✓	-	-
	COVIDPOSITIVE	Number	-	20	0	-	✓	-	-
	NOTALIVE	Number	-	20	0	-	✓	-	-
	NUMBEROFDISCHARGEDPATIENTS	Varchar2	3	-	-	-	✓	-	-

At the bottom right of the table structure, it says "1 - 5".

9) Deleting the table

The screenshot shows the Oracle Database Express Edition SQL Commands window. The browser address bar displays the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3620312073337262::NO::... The page title is "ORACLE Database Express Edition". The user is logged in as "SYSTEM". The breadcrumb navigation shows "Home > SQL > SQL Commands". The SQL Commands area contains the following text:

```
drop table April2020
desc April2020
```

Below the SQL Commands area, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Describe" tab is selected, and the output area displays the error message: "Object to be described could not be found." The bottom status bar shows "Application Express 2.1.0.0.39" and "Copyright © 1999, 2009, Oracle. All rights reserved." The system clock shows "22:24" and "22-07-2020".