

COMMANDS ASSIGNMENT DAY 2 DBMS

Q) Display the entire department information.

Code:

```
SELECT * FROM DEPARTMENT;
```

Output:

```
SQL> SQL> select * from DEPARTMENT;
```

DEPT	DEPTNAME	STUDENT_ALLOTTED
CSE	Computer Science and Engineering	120
ECE	Electronics and Communication Engineering	120
IT	INFORMATION TECHNOLOGY	60
EE	ELECTRICAL ENGINEERING	60

Q) Display the department with allotted student number more than 100.

Code:

```
SELECT DEPTNAME FROM DEPARTMENT WHERE STUDENT_ALLOTTED > 100;
```

Output:

```
SQL> select DEPTNAME from DEPARTMENT where STUDENT_ALLOTTED>100;
```

DEPTNAME
Computer Science and Engineering
Electronics and Communication Engineering

Q) Display all students' details of CSE.

Code:

```
SELECT * FROM STUDENT WHERE DEPTCODE='CSE';
```

Output:

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDAT
1001	ANKIT DAS	VIP Road, Kolkata	9830675221	2017	CSE	SEM5	10-02-99
1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE	SEM5	01-05-98
1003	PARIMAL KUMAR	NSB Road, Birati	8099922211	2016	CSE	SEM5	17-03-01
1029	NAITIK PRASAD	KGR path, Belgharia		2018	CSE	SEM3	08-10-03
1023	SAMPRIKTA BISWAS	Barrackpore	8877565643	2018	CSE	SEM3	13-12-03
1011	RAHUL KHAN	Jadavpur, Kolkata		2017	CSE	SEM5	07-07-01
1060	SHUBHAM	Sealdah, Kolkata	9833221098	2017	CSE	SEM3	09-08-03
1500	SUBARNA MITRA	Gariahat, Kolkata	6987654322	2017	CSE	SEM3	02-01-03
1101	AMARITA DEV	Gariahat, Kolkata		2019	CSE	SEM1	06-01-04

9 rows selected.

Q) Display students' names along with department code and semester who admitted in 2018.

Code:

```
SELECT NAME,DEPTCODE,SEMESTER FROM STUDENT WHERE YEAROFADM=2018;
```

Output:

```
SQL> select NAME,DEPTCODE,SEMESTER from STUDENT where YEAROFADM='2018';
```

NAME	DEPT	SEME
NAITIK PRASAD	CSE	SEM3
SATNAM JYOTI	IT	SEM3
SAMPRIKTA BISWAS	CSE	SEM3
GAURAV PRAKASH	ECE	SEM3
RAHUL JOSHI	EE	SEM3

Q)Show the name and semester of the CSE students who do not have phone numbers.

Code:

```
SELECT NAME,SEMESTER FROM STUDENT WHERE PHONENO IS NULL;
```

Output:

```
SQL> SELECT NAME,SEMESTER FROM STUDENT WHERE PHONENO IS NULL;
```

NAME	SEME
NAITIK PRASAD	SEM3
SAURAV ROY	SEM5
NIKHIL SINGH	SEM5
RAHUL KHAN	SEM5
GAURAV PRAKASH	SEM3
MRIGENDRA	SEM1
AMARITA DEV	SEM1

Q) Show name and phone numbers students whose name starts with 'R'

Code:

```
SELECT NAME, PHONENO FROM STUDENT WHERE NAME LIKE 'R%';
```

Output:

```
SQL> SELECT NAME,PHONENO FROM STUDENT WHERE NAME LIKE 'R%';
```

NAME	PHONENO
RAHUL KHAN	

Q) Show name and phone numbers of the students with Surname 'Kumar'.

Code:

```
SELECT NAME,PHONENO FROM STUDENT WHERE NAME LIKE '%KUMAR';
```

Output:

```
SQL> SELECT NAME,PHONENO FROM STUDENT WHERE NAME LIKE '%KUMAR';
```

NAME	PHONENO
PARIMAL KUMAR	8099922211
ASHISH KUMAR	6544332121

Q) Show name, year of admission, deptcode of the student with second alphabet of name is 'A'.

Code:

```
SELECT NAME,YEAROFADM,DEPTCODE FROM STUDENT WHERE NAME LIKE '_A%';
```

Output:

```
SQL> SELECT NAME,YEAROFADM,DEPTCODE FROM STUDENT WHERE NAME LIKE '_A%';
```

NAME	YEAROFADM	DEPT
PARIMAL KUMAR	2016	CSE
SANCHITA SINGH	2017	ECE
NAITIK PRASAD	2018	CSE
SATNAM JYOTI	2018	IT
SAURAV ROY	2017	EE
SAMPRIKTA BISWAS	2018	CSE
RAHUL KHAN	2017	CSE
GAURAV PRAKASH	2018	ECE

Q) Show student details of CSE resident of KOLKATA, who was born before 2000.

Code:

```
SELECT * FROM STUDENT WHERE DEPTCODE = 'CSE' AND BIRTHDATE < TO_DATE('01-01-2000','DD-MM-YYYY') AND ADDRESS LIKE '%Kolkata';
```

Output:

```
SQL> SELECT * FROM STUDENT WHERE DEPTCODE = 'CSE' AND BIRTHDATE < TO_DATE('01-01-2000','DD-MM-YYYY') AND ADDRESS LIKE '%Kolkata';
```

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDAT
1001	ANKIT DAS	VIP Road, Kolkata	9830675221	2017	CSE	SEM5	10-02-99
1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE	SEM5	01-05-98

Q) Show student details of 2nd year students who were born on the first day of a month.

Code:

```
SELECT * FROM STUDENT WHERE (SEMESTER='SEM3' OR SEMESTER='SEM4') AND  
TO_CHAR(BIRTHDATE) LIKE '01%';
```

Output:

no rows selected

Q) Display the students list of IT department who reside in 'KOLKATA' and are admitted in 2017.

Code:

```
SELECT * FROM STUDENT WHERE DEPTCODE='IT' AND ADDRESS LIKE '%Kolkata' AND  
YEAROFADM=2017;
```

Output:

no rows selected

Q)Show the phone no, year of admission and birth date of CSE students born in 'JUNE'.

Code:

```
SELECT PHONENO, YEAROFADM, BIRTHDATE FROM STUDENT WHERE DEPTCODE =  
'CSE' AND TO_CHAR(BIRTHDATE, 'MM') = '06';
```

Output:

no rows selected

Q)Display the list of ECE 3rd year students whose birthday is 20 th October.

Code:

```
SELECT * FROM STUDENT WHERE DEPTCODE='ECE' AND (SEMESTER='SEM5' OR  
SEMESTER='SEM6') AND TO_CHAR(BIRTHDATE, 'DD-MM') = '20-10';
```

Output:

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDATE
2001	SANCHITA SINGH	Tegharia, Kolkata	7667880010	2017	ECE	SEM5	20-OCT-00

Q)Show student details who were born in either May, June, September or December.

Code:

```
SELECT * FROM STUDENT WHERE TO_CHAR(BIRTHDATE,'MM')='05' OR
TO_CHAR(BIRTHDATE,'MM')='06' OR TO_CHAR(BIRTHDATE,'MM')='09' OR
TO_CHAR(BIRTHDATE,'MM')='12';
```

Output:

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDATE
1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE	SEM5	01-MAY-98
2101	ASHISH KUMAR	Baguiati, Kokata	6544332121	2017	ECE	SEM5	17-SEP-01
4011	SATNAM JYOTI	Garia, Kolkata	8933322125	2018	IT	SEM3	21-SEP-02
3005	MOHAMMAD AZIB	Saltlake	7910000666	2017	EE	SEM5	20-MAY-01
2004	NIKHIL SINGH	Central Howrah		2016	ECE	SEM5	21-JUN-99
1023	SAMPRIKTA BISWAS	Barrackpore	8877565643	2018	CSE	SEM3	13-DEC-03
3008	RAHUL JOSHI	AB block, Saltlake	9980765123	2018	EE	SEM3	20-JUN-03

Q)Display the students name, department, semester whose age is more than 20 years.

Code:

```
SELECT NAME,DEPTCODE,SEMESTER FROM STUDENT WHERE EXTRACT(YEAR FROM
BIRTHDATE) < 2004;
```

Output:

NAME	DEPT	SEME
ANKIT DAS	CSE	SEM5
MOINAK GHOSH	CSE	SEM5
PARIMAL KUMAR	CSE	SEM5
SANCHITA SINGH	ECE	SEM5
ANANYA BISWAS	ECE	SEM5
ASHISH KUMAR	ECE	SEM5
NAITIK PRASAD	CSE	SEM3
SATNAM JYOTI	IT	SEM3
SAURAV ROY	EE	SEM5
MOHAMMAD AZIB	EE	SEM5
NIKHIL SINGH	ECE	SEM5
NAME	DEPT	SEME
SAMPRIKTA BISWAS	CSE	SEM3
RAHUL KHAN	CSE	SEM5
SHUBHAM	CSE	SEM3
RAHUL JOSHI	EE	SEM3
SUBARNA MITRA	CSE	SEM3

