

SQL ASSIGNMENT – 2

1) Write an SQL query to print the first three characters of **FIRST_NAME** from **Worker** table.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists various databases, with 'workers' expanded to show the 'worker_table'. The 'Query 1' editor contains the following SQL code:

```
1 use workers;
2 select substr(FIRST_NAME,1,3) as "FIRST THREE CHARS NAME" from worker_table;
```

The 'Result Grid' displays the output of the query, showing the first three characters of the first names for 11 rows. The first row is 'Nic', the second is 'Afr', and the third is 'sat'.

The 'Output' pane at the bottom shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
7	10:15:44	select substr(FIRST_NAME,1,3) as "First three chars name" from worker_table LIMIT 0 ...	11 row(s) returned	0.000 sec / 0.000 sec
8	10:16:05	select substr(FIRST_NAME,1,3) as "FIRST THREE CHARS NAME" from worker_table ...	11 row(s) returned	0.000 sec / 0.000 sec

2) Write an SQL query to find the position of the alphabet ('a') in the first name column 'Amitabh' from **Worker** table.

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists various databases, with 'workers' expanded to show the 'worker_table'. The 'Query 1' editor contains the following SQL code:

```
1 -- use workers;
2 -- select substr(FIRST_NAME,1,3) as "FIRST THREE CHARS NAME" from worker_table;
3 -- insert into worker_table values(11,"Amitabh","Bachan",250000,"Entertainment","1965-06-07");
4 -- select FIRST_NAME from workers.worker_table;
5 select FIRST_NAME,instr('a',FIRST_NAME) from worker_table where FIRST_NAME='Amitabh';
```

The 'Result Grid' displays the output of the query, showing the position of the letter 'a' in the first name 'Amitabh' for 1 row. The result is 0.

The 'Output' pane at the bottom shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
23	10:54:50	select FIRST_NAME from workers.worker_table LIMIT 0, 1000	12 row(s) returned	0.016 sec / 0.000 sec
24	10:55:05	select FIRST_NAME,instr('a',FIRST_NAME) from worker_table where FIRST_NAME='A...	1 row(s) returned	0.000 sec / 0.000 sec

3) Write an SQL query to print the name of employees having the highest salary in each department.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```

1  -- use workers;
2  -- select substr(FIRST_NAME,1,3) as "FIRST THREE CHARS NAME" from worker_table;
3  -- insert into worker_table values(11,"Amitabh","Bachan","Mumbai",250000,"Entertainment","1965-06-07");
4  -- select FIRST_NAME,instr('a',FIRST_NAME) from worker_table where FIRST_NAME='Amitabh';
5  select FIRST_NAME,max(SALARY),DEPARTMENT from workers.worker_table group by DEPARTMENT order by SALARY desc;
6

```

The result grid shows the following data:

FIRST_NAME	max(SALARY)	DEPARTMENT
Nick	300000	Consulting
Amitabh	250000	Entertainment
Afroz	150000	Finance
sai	120000	Development
pratyusha	120000	IT
Dattu	100000	Analytics
chakri	90000	Software
usha	70000	Electronics
ram	30000	Sales
buddha	21000	Mechanical
gupta	18000	Civil
Dat	10000	Marketing

The table schema for **worker_table** is as follows:

Column	DataType
ID	int
FIRST_NAME	varchar(15)
LAST_NAME	varchar(15)
CITY	varchar(15)
SALARY	int
DEPARTMENT	varchar(15)
JOINING_DATE	date

SCHEMA IN THE WORKER TABLE

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```

1  -- use workers;
2  -- select substr(FIRST_NAME,1,3) as "FIRST THREE CHARS NAME" from worker_table;
3  -- insert into worker_table values(11,"Amitabh","Bachan","Mumbai",250000,"Entertainment","1965-06-07");
4  select FIRST_NAME from workers.worker_table;
5  -- select FIRST_NAME,instr('a',FIRST_NAME) from worker_table where FIRST_NAME='Amitabh';

```

The result grid shows the following data:

FIRST_NAME
Dattu
Nick
Afroz
sai
chakri
buddha
gupta
usha
pratyusha
ram
Dat
Amitabh

The table schema for **worker_table** is as follows:

Column	DataType
ID	int
FIRST_NAME	varchar(15)
LAST_NAME	varchar(15)
CITY	varchar(15)
SALARY	int
DEPARTMENT	varchar(15)
JOINING_DATE	date