|  |  |
| --- | --- |
| Exp.No.10  Date: | **DATE AND TIME FUNCTIONS** |

**Aim:**

To perform SQL date and time functions.

**Table:**

SQL> select \*from student;

ID NAME AGE S DEPT EMAIL ADMISSION OPEN\_DATE

---------- ---------- ---------- - ---------- --------------------------------------- ---------

109 jeevan 18 B IT [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

100 ani 19 B IT [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

119pritesh 19 B IT [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

103mithun 17 B ECE [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

107 karthi 17 B ECE [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

108 rupak 17 B IT [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

110rupak 19 B IT [kongu@gmail.com](mailto:kongu@gmail.com) 23-MAY-25

7 rows selected.

**Adding Date:**

SQL> select id,name,admission\_date,admission\_date+interval '10' day as open\_date from student;

ID NAME ADMISSION OPEN\_DATE

---------- ---------- --------- ---------

109 jeevan 23-MAY-25 02-JUN-25

100 ani 23-MAY-25 02-JUN-25

119 pritesh 23-MAY-25 02-JUN-25

103 mithun 23-MAY-25 02-JUN-25

107 karthi 23-MAY-25 02-JUN-25

108 rupak 23-MAY-25 02-JUN-25

110 rupak 23-MAY-25 02-JUN-25

7 rows selected.

**Current Date:**

SQL> select id,name,sysdate as current\_date from student;

ID NAME CURRENT\_D

---------- ---------- ---------

109 jeevan 26-APR-25

100 ani 26-APR-25

119 pritesh 26-APR-25

103 mithun 26-APR-25

107 karthi 26-APR-25

108 rupak 26-APR-25

110 rupak 26-APR-25

7 rows selected.

**To Find WaitingDateOf Admission:**

SQL> select floor (months\_between(admission\_date,sysdate)/12) as wait from student;

WAIT

----------

0

0

0

0

0

0

0

7 rows selected.

**Extract:**

SQL> select id,name,extract(year from admission\_date) as admission\_year from student;

ID NAME ADMISSION\_YEAR

---------- ---------- --------------

109 jeevan 2025

100 ani 2025

119 pritesh 2025

103 mithun 2025

107 karthi 2025

108 rupak 2025

110 rupak 2025

7 rows selected.

**To Find TheTotal Number OfDays Using Trunc:**

SQL> select id,name,trunc(admission\_date)-trunc(sysdate) as wait\_days from student;

ID NAME WAIT\_DAYS

---------- ---------- ----------

109 jeevan 27

100 ani 27

119 pritesh 27

103 mithun 27

107 karthi 27

108 rupak 27

110 rupak 27

7 rows selected.

**To FindThe Student Who Has Senior More Than 10 Years:**

SQL> select name from student where extract(year from sysdate)-extract(year from admission\_date)>10;

NAME

----------

jeevan

Pritesh

**Students Admissioned On Samed Day:**

SQL> select id, name from student s1where exists (select 1 from student s2where s1.admission\_date = s2.admission\_date and s1.id != s2.id);

ID NAME

---------- ----------

103 mithun

107 karthi

108 rupak

110 rupak

100 ani

**Student AdmissionedOn Alternate Day:**

SQL> select id,name from student s1 where exists(select 1 from student s2 where abs(s1.admission\_date-s2.admission\_date)=1 and s1.id!=s2.id);

ID NAME

---------- ----------

109 jeevan

100 ani

**Time:**

**To View The Table:**

SQL> select name,to\_char(admission\_in\_time,'HH24:MI:SS') as admission\_in\_time from student;

NAME ADMISSIO

---------- --------

jeevan 09:00:00

ani 09:00:00

pritesh 09:00:00

mithun 09:00:00

karthi 09:00:00

rupak 09:00:00

rupak 09:00:00

7 rows selected.

**Adding End Time ToThe Table Event:**

SQL> select name,to\_char(admission\_in\_time,'HH24:MI:SS') as admission\_in\_time ,to\_char(admission\_in\_time +interval '1' hour,'HH24:MI:SS') as admission\_out\_time from student;

NAME ADMISSIO ADMISSIO

---------- -------- --------

jeevan 09:00:00 10:00:00

ani 09:00:00 10:00:00

pritesh 09:00:00 10:00:00

mithun 09:00:00 10:00:00

karthi 09:00:00 10:00:00

rupak 09:00:00 10:00:00

rupak 09:00:00 10:00:00

7 rows selected.

|  |  |  |
| --- | --- | --- |
| CONTENTS | MARKS ALLOTTED | MARKS OBTAINED |
| Aim,Alogorithm,SQL,PL/SQL | 30 |  |
| Execution and Result | 20 |  |
| Viva | 10 |  |
| Total | 60 |  |

**RESULT:**

The sql order by date and time operations are performed.