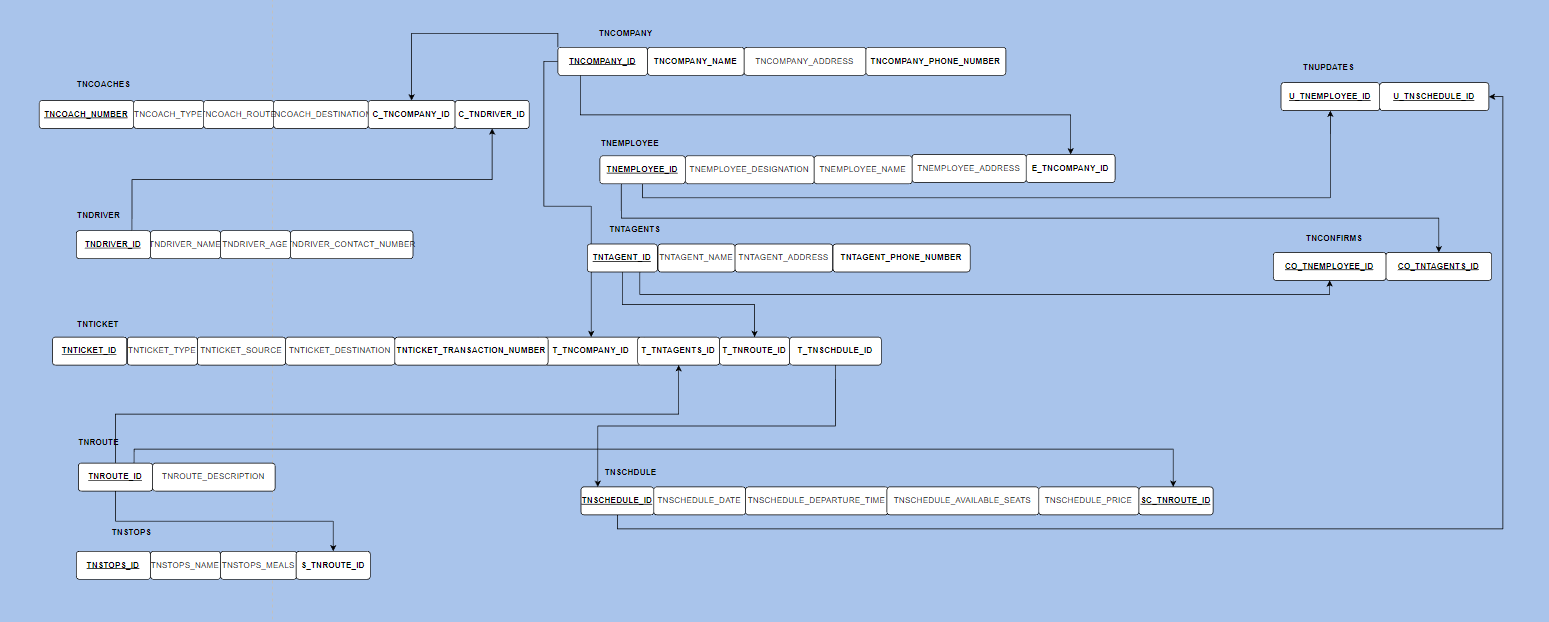
Advance Database Management System

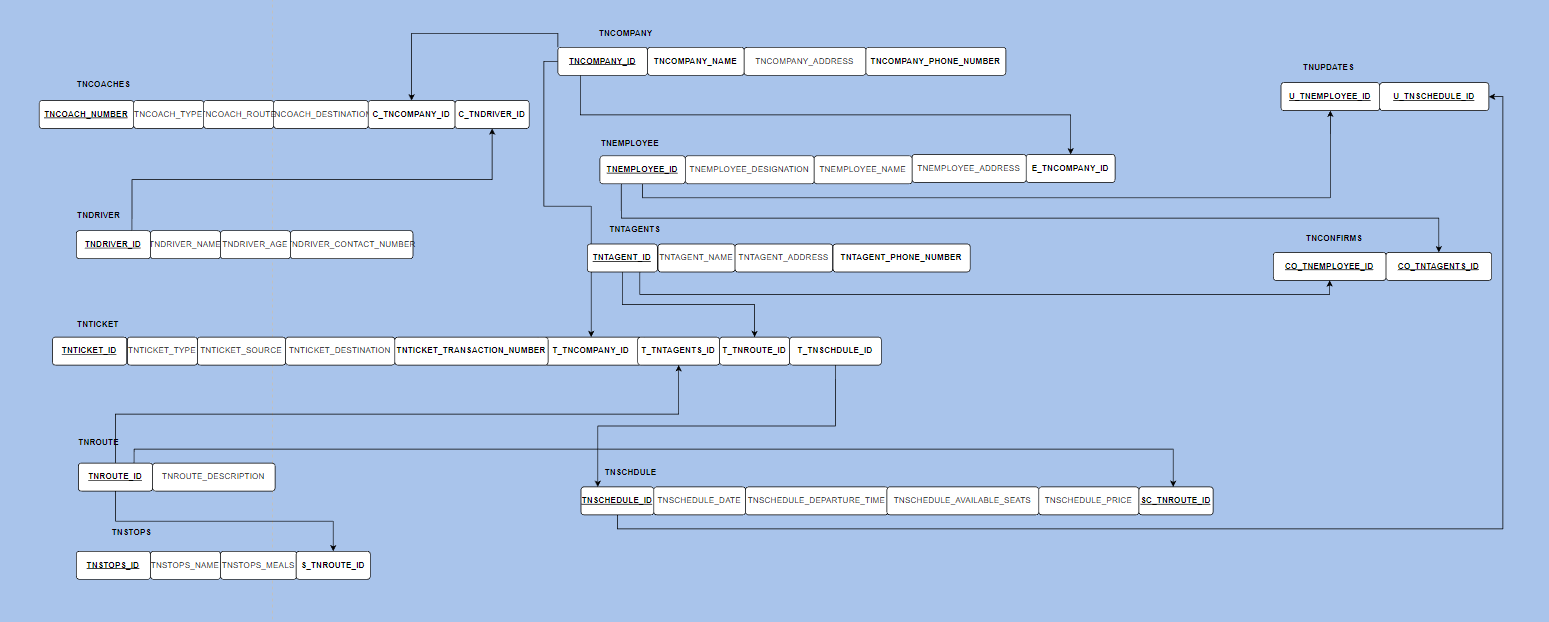
Graphical user interface, text, application

Description automatically generated



Text

Description automatically generated



Text

Description automatically generated with low confidence

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLE NAME** | **COLUMN NAME** | **DATA TYPE** | **CONSTRAINTS** | **DESCRIPTION** |
| TNCOMPANY | TNCOMPANY\_ID | CHAR(5) | PK, NOT NULL | A five-character code, not necessarily both digits. |
|  | TNCOMPANY\_NAME | VARCHAR(20) | UNIQUE, NOT NULL | Name of the company, up to 20 letters. |
|  | TNCOMPANY\_ADDRESS | VARCHAR(30) | - | Address of the respective companies, upto 20 letters. |
|  | TNCOMPANY\_PHONE\_NUMBER | NUMBER(11) | UNIQUE | Phone number of the respective companies, upto 11 numbers. |
| TNEMPLOYEE | TNEMPLOYEE\_ID | CHAR(6) | PK, NOT NULL | A six-character code, not necessarily both digits. |
|  | E\_TNCOMPANY\_ID | CHAR(5) | REFERENCES TNCOMPANY(TNCOMPANY\_ID) | A five-character code, not necessarily both digits. |
|  | TNEMPLOYEE\_DESIGNATION | VARCHAR(10) | - | Designation of the employee, upto 10 letters. |
|  | TNEMPLOYEE\_NAME | VARCHAR(15) | UNIQUE, NOT NULL | Name of the employee, upto 15 letters. |
|  | TNEMPLOYEE\_ADDRESS | VARCHAR(20) | - | Address of the employee, upto 20 letters. |
| TNDRIVER | TNDRIVER\_ID | CHAR(6) | PK, NOT NULL | A six-character code, not necessarily both digits. |
|  | TNDRIVER\_NAME | CHAR(20) | UNIQUE, NOT NULL | Name of the driver, upto 20 letters. |
|  | TNDRIVER\_AGE | NUMBER(2) | - | Age of the driver, upto 2 numbers. |
|  | TNDRIVER\_PHONE\_NUMBER | NUMBER(11) | UNIQUE, NOT NULL | Phone number of the respective drivers, upto 11 numbers. |
| TNCOACHES | TNCOACHES\_NUMBER | CHAR(5) | PK, NOT NULL | A five-character code, not necessarily both digits. |
|  | C\_TNCOMPANY\_ID | CHAR(5) | REFERENCES TNCOMPANY(TNCOMPANY\_ID) | A five-character code, not necessarily both digits. |
|  | C\_TNDRIVER\_ID | CHAR(6) | REFERENCES TNDRIVER(TNDRIVER\_ID) | A six-character code, not necessarily both digits. |
|  | TNCOACHES\_TYPE | VARCHAR(15) | - | Type of the coach(seater, sleeper, double decker), upto 10 letters. |
|  | TNCOACHES\_ROUTE | VARCHAR(40) | NOT NULL | Route the coach takes, upto 30 letters |
|  | TNCOACHES\_DESTINATION | VARCHAR(20) | NOT NULL | Final stop of the coach, upto 15 letters. |
| TNTAGENTS | TNTAGENTS\_ID | CHAR(6) | PK, NOT NULL | A six-character code, not necessarily both digits. |
|  | TNTAGENTS\_NAME | VARCHAR(20) | NOT NULL | Name of the tour agent, upto 20 letters. |
|  | TNTAGENTS\_ADDRESS | VARCHAR(30) | - | Address of the tour agents, upto 30 letters. |
|  | TNTAGENTS\_PHONE\_NUMBER | NUMBER(11) | UNIQUE, NOT NULL | Phone number of the respective drivers, upto 11 numbers. |
| TNROUTE | TNROUTE\_ID | CHAR(6) | PK, NOT NULL | A six-character code, not necessarily both digits. |
|  | TNROUTE\_DESCRIPTION | VARCHAR(30) | NOT NULL | Route the coach takes, upto 30 letters |
| TNSTOPS | TNSTOPS\_ID | CHAR(6) | PK, NOT NULL | A five-character code, not necessarily both digits. |
|  | S\_TNROUTE\_ID | CHAR(6) | REFERENCES TNROUTE(TNROUTE\_ID) | A six-character code, not necessarily both digits. |
|  | TNSTOPS\_NAME | VARCHAR(20) | NOT NULL | Name of the stop, up to 15 letters. |
|  | TNSTOPS\_MEALS | VARCHAR(15) | - | Type of meal, upto 15 letters. |
| TNSCHEDULE | TNSCHEDULE\_ID | CHAR(5) | PK, NOT NULL | A five-character code, not necessarily both digits. |
|  | SC\_TNROUTE\_ID | CHAR(6) | REFERENCES TNROUTE(TNROUTE\_ID) | A six-character code, not necessarily both digits. |
|  | TNSCHEDULE\_DATE\_TIME | DATE | - | Date of the journey. |
|  | TNSCHEDULE\_DEPARTURE\_TIME | TIMESTAMP | - | Time of the specified date of the journey. |
|  | TNSCHEDULE\_AVAILABLE\_SEATS | NUMBER(3) | - | Available seat in the coach, upto 75 seats |
|  | TNSCHEDULE\_PRICE | NUMBER(3) | - | Price of the schedule of the coach. |
| TNTICKET | TNTICKET\_ID | CHAR(5) | PK, NOT NULL | A five-character code, not necessarily both digits. |
|  | T\_TNCOMPANY\_ID | CHAR(5) | REFERENCES TNCOMPANY(TNCOMPANY\_ID) | A five-character code, not necessarily both digits. |
|  | T\_TNROUTE\_ID | CHAR(6) | REFERENCES TNROUTE(TNROUTE\_ID) | A six-character code, not necessarily both digits. |
|  | T\_TNTAGENTS\_ID | CHAR(6) | REFERENCES TNTAGENTS(TNTAGENTS\_ID) | A six-character code, not necessarily both digits. |
|  | T\_TNSCHDULE\_ID | CHAR(5) | REFERENCES TNSCHDULE(TNSCHEDULE\_ID) | A five-character code, not necessarily both digits. |
|  | TNTICKET\_TYPE | VARCHAR(10) | - | Type of the ticket seat(seater, sleeper), upto 10 letters. |
|  | TNTICKET\_TICKET\_TRANSACTION\_NUMBER | CHAR(7) | UNIQUE,NOT NULL | A seven-character code, not necessarily both digits. |
| TNUPDATES | U\_TNEMPLOYEE\_ID | CHAR(7) | PK, REFERENCES TNEMPLOYEE(TNEMPLOYEE\_ID) | A six-character code, not necessarily both digits. |
|  | U\_TNSCHEDULE\_ID | CHAR(5) | PK, REFERENCES TNSCHEDULE(TNSCHEDULE\_ID) | A five-character code, not necessarily both digits. |
| TNCONFIRMS | CO\_TNEMPLOYEE\_ID | CHAR(6) | PK, REFERENCES TNEMPLOYEE(TNEMPLOYEE\_ID) | A six-character code, not necessarily both digits. |
|  | CO\_TNTAGENTS\_ID | CHAR(6) | PK, REFERENCES TNTAGENTS(TNTAGENTS\_ID) | A six-character code, not necessarily both digits. |

Graphical user interface, text

Description automatically generated

Graphical user interface, text

Description automatically generated

DROP TABLE TNCONFIRMS PURGE;

DROP TABLE TNUPDATES PURGE;

DROP TABLE TNTICKET PURGE;

DROP TABLE TNSCHEDULE PURGE;

DROP TABLE TNSTOPS PURGE;

DROP TABLE TNROUTE PURGE;

DROP TABLE TNTAGENTS PURGE;

DROP TABLE TNCOACHES PURGE;

DROP TABLE TNDRIVER PURGE;

DROP TABLE TNEMPLOYEE PURGE;

DROP TABLE TNCOMPANY PURGE;

ALTER SESSION SET NLS\_DATE\_FORMAT = 'DD/MM/YYYY HH24:MI:SS';

REM creating the TNCOMPANY table and providing the constraints to check the data which we have inserted is right or wrong.

REM DEFAULT used that the default value is inserted in the case of NULL values.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM UNIQUE constraint helps to make sure the value across the attribute is different from each other.

CREATE TABLE TNCOMPANY

(TNCOMPANY\_ID CHAR(5) NOT NULL,

TNCOMPANY\_NAME VARCHAR(20) NOT NULL UNIQUE,

TNCOMPANY\_ADDRESS VARCHAR(30),

TNCOMPANY\_PHONE\_NUMBER NUMBER(11) CONSTRAINT U\_TNCOMPANY UNIQUE,

PRIMARY KEY(TNCOMPANY\_ID)

);

REM creating the TNEMPLOYEE table specifying the primary key where the particular data can be accessed through that.

REM UNIQUE constraint helps to make sure the value across the attribute is different from each other.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM refereces are used to refer the values from other table, the E\_TNCOMPANY\_ID attribute refers to TNCOMPANY\_ID in TNCOMPANY table.

CREATE TABLE TNEMPLOYEE

(TNEMPLOYEE\_ID CHAR(6) NOT NULL PRIMARY KEY,

E\_TNCOMPANY\_ID CHAR(5) CONSTRAINT TNEMPLOYEE\_FK REFERENCES TNCOMPANY(TNCOMPANY\_ID),

TNEMPLOYEE\_NAME CHAR(15) NOT NULL UNIQUE,

TNEMPLOYEE\_DESIGNATION VARCHAR(10),

TNEMPLOYEE\_ADDRESS VARCHAR(20)

);

REM creating the TNDRIVER table specifying the primary key

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM UNIQUE constraint helps to make sure the value across the attribute is different from each other.

CREATE TABLE TNDRIVER

(TNDRIVER\_ID CHAR(6) NOT NULL PRIMARY KEY,

TNDRIVER\_NAME CHAR(20) NOT NULL UNIQUE,

TNDRIVER\_AGE NUMBER(2),

TNDRIVER\_PHONE\_NUMBER NUMBER(11) NOT NULL UNIQUE

);

REM creating the TNCOACHES table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM refereces are used to refer the values from other table, the C\_TNCOMPANY\_ID attribute refers to TNCOMPANY\_ID in TNCOMPANY table and the C\_TNDRIVER\_ID attribute refers to TNDRIVER\_ID in TNDRIVER table.

CREATE TABLE TNCOACHES

(TNCOACHES\_NUMBER CHAR(5) NOT NULL PRIMARY KEY,

C\_TNCOMPANY\_ID CHAR(5) NOT NULL CONSTRAINT TNCOACHES\_FK0 REFERENCES TNCOMPANY(TNCOMPANY\_ID),

C\_TNDRIVER\_ID CHAR(6) NOT NULL CONSTRAINT TNCOACHES\_FK1 REFERENCES TNDRIVER(TNDRIVER\_ID),

TNCOACHES\_TYPE VARCHAR(15),

TNCOACHES\_ROUTE VARCHAR(40) NOT NULL,

TNCOACHES\_DESTINATION VARCHAR(20) NOT NULL

);

REM creating the TNTAGENTS table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM UNIQUE constraint helps to make sure the value across the attribute is different from each other.

CREATE TABLE TNTAGENTS

(TNTAGENTS\_ID CHAR(6) NOT NULL PRIMARY KEY,

TNTAGENTS\_NAME VARCHAR(20) NOT NULL,

TNTAGENTS\_ADDRESS VARCHAR(30),

TNTAGENTS\_PHONE\_NUMBER NUMBER(11) NOT NULL UNIQUE

);

REM creating the TNROUTE table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

CREATE TABLE TNROUTE

(TNROUTE\_ID CHAR(6) NOT NULL PRIMARY KEY,

TNROUTE\_DESCRIPTION VARCHAR(30) NOT NULL

);

REM creating the TNSTOPS table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM refereces are used to refer the values from other table, the S\_TNROUTE\_ID attribute refers to TNROUTE\_ID in TNROUTE table.

CREATE TABLE TNSTOPS

(TNSTOPS\_ID CHAR(6) NOT NULL PRIMARY KEY,

S\_TNROUTE\_ID CHAR(6) NOT NULL CONSTRAINT TNSTOPS\_FK REFERENCES TNROUTE(TNROUTE\_ID),

TNSTOPS\_NAME VARCHAR(20) NOT NULL,

TNSTOPS\_MEALS VARCHAR(15)

);

REM creating the TNSCHEDULE table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM DEFAULT used that the default value is inserted in the case of NULL values.

REM refereces are used to refer the values from other table, the SC\_TNROUTE\_ID attribute refers to TNROUTE\_ID in TNROUTE table.

CREATE TABLE TNSCHEDULE

(TNSCHEDULE\_ID CHAR(5) NOT NULL PRIMARY KEY,

SC\_TNROUTE\_ID CHAR(6) NOT NULL CONSTRAINT TNSCHEDULE\_FK REFERENCES TNROUTE(TNROUTE\_ID),

TNSCHEDULE\_DATE\_TIME DATE,

TNSCHEDULE\_AVAILABLE\_SEATS NUMBER(3) DEFAULT NULL,

TNSCHDULE\_PRICE NUMBER(3) NOT NULL

);

REM creating the TNTICKET table specifying the primary key where the particular data can be accessed through that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM references are used to refer the values from other table, the T\_TNCOMPANY\_ID attribute refers to TNCOMPANY\_ID in TNCOMPANY table, the T\_TNROUTE\_ID attribute refers to TNROUTE\_ID in TNROUTE table and the T\_TNTAGENTS attribute refers to TNTAGENTS\_ID in TNTAGENTS table.

CREATE TABLE TNTICKET

(TNTICKET\_ID CHAR(5) NOT NULL PRIMARY KEY,

T\_TNCOMPANY\_ID CHAR(5) NOT NULL CONSTRAINT TNTICKET\_FK0 REFERENCES TNCOMPANY(TNCOMPANY\_ID),

T\_TNTAGENTS\_ID CHAR(6) NOT NULL CONSTRAINT TNTICKET\_FK1 REFERENCES TNTAGENTS(TNTAGENTS\_ID),

T\_TNROUTE\_ID CHAR(6) NOT NULL CONSTRAINT TNTICKET\_FK2 REFERENCES TNROUTE(TNROUTE\_ID),

T\_TNSCHDULE\_ID CHAR(5) NOT NULL CONSTRAINT TNTICKET\_FK3 REFERENCES TNSCHEDULE(TNSCHEDULE\_ID),

TNTICKET\_TYPE VARCHAR(10),

TNTICKET\_DESCRIPTION VARCHAR(30) NOT NULL,

TNTICKET\_TRANSACTION\_NUMBER CHAR(7) UNIQUE NOT NULL,

TNTICKET\_PURCHASE\_DATE DATE NOT NULL );

REM creating the TNUPDATES table specifying the primary key where the particular data can be accessed thought that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM references are used to refer the values from other table, the U\_TNEMPOYEE\_ID attribute refers to TNEMPLOYEE\_ID in TNEMPLOYEE table, the U\_TNSCHEDULE\_ID attribute refers to TNSCHEDULE\_ID in TNSCHEDULE table.

CREATE TABLE TNUPDATES

(U\_TNEMPLOYEE\_ID CHAR(6) NOT NULL CONSTRAINT TNUPDATES\_FK0 REFERENCES TNEMPLOYEE(TNEMPLOYEE\_ID),

U\_TNSCHEDULE\_ID CHAR(5) NOT NULL CONSTRAINT UPDATES\_FK REFERENCES TNSCHEDULE(TNSCHEDULE\_ID),

PRIMARY KEY(U\_TNEMPLOYEE\_ID,U\_TNSCHEDULE\_ID)

);

REM creating the TNCONFIRMS table specifying the primary key where the particular data can be accessed thought that.

REM NOT NULL constraint which makes sure that value is mandatory while inserting the rows.

REM references are used to refer the values from other table, the U\_TNEMPOYEE\_ID attribute refers to TNEMPLOYEE\_ID in TNEMPLOYEE table, the U\_TNTAGENTS\_ID attribute refers to TNTAGENTS\_ID in TNTAGENTS table.

CREATE TABLE TNCONFIRMS

(CO\_TNEMPLOYEE\_ID CHAR(6) NOT NULL CONSTRAINT TNCONFIRMS\_FK0 REFERENCES TNEMPLOYEE(TNEMPLOYEE\_ID),

CO\_TNTAGENTS\_ID CHAR(6) NOT NULL CONSTRAINT TNCONFIRMS\_FK1 REFERENCES TNTAGENTS(TNTAGENTS\_ID),

PRIMARY KEY(CO\_TNEMPLOYEE\_ID,CO\_TNTAGENTS\_ID)

);