

# **DDL SCRIPT**

CREATE SCHEMA WFA;

SET SEARCH\_PATH TO WFA;

–ACCOMMODATION

```
CREATE TABLE ACCOMMODATION(  
    ACCOMMODATION_ID VARCHAR(50),  
    ACCOMMODATION_NAME VARCHAR(50) NOT NULL,  
    ACCOMMODATION_TYPE VARCHAR(50) NOT NULL,  
    STREET VARCHAR(50),  
    LANDMARK VARCHAR(50),  
    CITY VARCHAR(50),  
    STATE VARCHAR(50),  
    PINCODE INT NOT NULL,  
    CHECK_IN_TIME TIME NOT NULL,  
    CHECK_OUT_TIME TIME NOT NULL,  
    USER_RATING SMALLINT,  
    STAR_CATEGORY SMALLINT,  
    STARTING_PRICE INT,  
  
    PRIMARY KEY(ACCOMMODATION_ID)  
);
```

```
CREATE TABLE ROOM_TYPE(  
    ACCOMMODATION_ID VARCHAR(50),  
    ROOM_TYPE_ID INT,  
    ROOM_TYPE_NAME VARCHAR(50) NOT NULL,  
    CAPACITY SMALLINT NOT NULL,  
    BED_TYPE VARCHAR(50),  
    AREA SMALLINT,  
    EXTRA_CAPACITY SMALLINT,  
    TOTAL_ROOMS SMALLINT NOT NULL,  
  
    PRIMARY KEY (ROOM_TYPE_ID, ACCOMMODATION_ID),  
    FOREIGN KEY (ACCOMMODATION_ID) REFERENCES ACCOMMODATION(ACCOMMODATION_ID)  
);
```

```
CREATE TABLE AVAILABLE_ROOMS(  
    ACCOMMODATION_ID VARCHAR(50),  
    ROOM_TYPE_ID INT,  
    CHECK_IN_DATE DATE,  
    CHECK_OUT_DATE DATE,  
    AVAILABLE_ROOMS SMALLINT,  
  
    PRIMARY KEY(ACCOMMODATION_ID,ROOM_TYPE_ID, CHECK_IN_DATE, CHECK_OUT_DATE),
```

```
FOREIGN KEY(ACCOMMODATION_ID,ROOM_TYPE_ID) REFERENCES  
ROOM_TYPE(ACCOMMODATION_ID,ROOM_TYPE_ID)
```

```
);
```

```
CREATE TABLE ACCOMMODATION_FARES(  
    ACCOMMODATION_ID VARCHAR(50),  
    ROOM_TYPE_ID INT,  
    BASE_PRICE INT NOT NULL,  
    MATTRESSES SMALLINT NOT NULL,  
    BREAKFAST INT NOT NULL,  
    LUNCH_OR_DINNER INT NOT NULL,  
    LUNCH_AND_DINNER INT NOT NULL,  
    ZERO_CANCELLATION INT NOT NULL,  
    TAXES INT NOT NULL,  
  
    PRIMARY KEY (ACCOMMODATION_ID,ROOM_TYPE_ID),  
    FOREIGN KEY (ACCOMMODATION_ID,ROOM_TYPE_ID) REFERENCES  
ROOM_TYPE(ACCOMMODATION_ID,ROOM_TYPE_ID)
```

```
);
```

```
CREATE TABLE ACCOMMODATION_REFUND_RULES(  
    ACCOMMODATION_ID VARCHAR(50),  
    ROOM_TYPE_ID INT,  
    GRACE_PERIOD SMALLINT,  
    CANCELLATION_PENALTY INT,  
  
    PRIMARY KEY(ACCOMMODATION_ID,ROOM_TYPE_ID,GRACE_PERIOD),  
    FOREIGN KEY(ACCOMMODATION_ID,ROOM_TYPE_ID) REFERENCES  
ROOM_TYPE(ACCOMMODATION_ID,ROOM_TYPE_ID)
```

```
);
```

–TRANSPORTATION

```
CREATE TABLE TRANSPORTATION_OWNER(  
    TRANSPORTATION_OWNER_ID SMALLINT,  
    TRANSPORTATION_OWNER_NAME VARCHAR(50),  
    TRANSPORTATION_TYPE VARCHAR(50),  
  
    PRIMARY KEY (TRANSPORTATION_OWNER_ID ,TRANSPORTATION_TYPE)
```

```
);
```

```

CREATE TABLE STATION(
    STATION_CODE VARCHAR(50),
    STATION_NAME VARCHAR(50),
    CITY VARCHAR(50),
    TRANSPORTATION_TYPE VARCHAR(50),

    PRIMARY KEY (STATION_CODE)
);

```

```

CREATE TABLE CLASSES(
    CLASS_ID SMALLINT,
    CLASS_NAME VARCHAR(50),
    TRANSPORTATION_TYPE VARCHAR(50),

    PRIMARY KEY(CLASS_ID)
);

```

```

CREATE TABLE TRANSPORTATION(
    TRANSPORTATION_ID VARCHAR(50),
    SOURCE_CODE VARCHAR(50) NOT NULL,
    DESTINATION_CODE VARCHAR(50) NOT NULL,
    DEPARTURE TIME NOT NULL,
    ARRIVAL TIME NOT NULL,
    TRANSPORTATION_NAME VARCHAR(50),
    TRANSPORTATION_TYPE VARCHAR(50),
    TRANSPORTATION_OWNER_ID SMALLINT,
    USER_RATING SMALLINT,
    NO_OF_DAYS SMALLINT,

    PRIMARY KEY(TRANSPORTATION_ID),
    FOREIGN KEY(TRANSPORTATION_TYPE,TRANSPORTATION_OWNER_ID) REFERENCES
TRANSPORTATION_OWNER (TRANSPORTATION_TYPE,TRANSPORTATION_OWNER_ID),
    FOREIGN KEY(SOURCE_CODE) REFERENCES STATION(STATION_CODE),
    FOREIGN KEY(DESTINATION_CODE) REFERENCES STATION(STATION_CODE)
);

```

```

CREATE TABLE TRANSPORTATION_CLASS(
    TRANSPORTATION_ID VARCHAR(50),
    CLASS_ID SMALLINT,
    TOTAL_SEATS SMALLINT,
    HAND_LUGGAGE SMALLINT,
    CHECK_IN_LUGGAGE SMALLINT,

    PRIMARY KEY(TRANSPORTATION_ID, CLASS_ID),

    FOREIGN KEY(CLASS_ID) REFERENCES CLASSES(CLASS_ID),
    FOREIGN KEY(TRANSPORTATION_ID) REFERENCES TRANSPORTATION(TRANSPORTATION_ID)
);

```

```

CREATE TABLE ROUTE (
    STATION_CODE VARCHAR(50),
    TRANSPORTATION_ID VARCHAR(50),
    STOP_NUMBER SMALLINT NOT NULL,
    ARRIVAL TIME,
    DEPARTURE TIME,
    HALT TIME,
    KM_FROM_ORIGIN SMALLINT NOT NULL,
    DAY_NO SMALLINT NOT NULL,

    PRIMARY KEY(STATION_CODE, TRANSPORTATION_ID),

    FOREIGN KEY (STATION_CODE) REFERENCES STATION(STATION_CODE),
    FOREIGN KEY (TRANSPORTATION_ID) REFERENCES TRANSPORTATION(TRANSPORTATION_ID)
);

```

```

CREATE TABLE AVAILABLE_SEATS(
    TRANSPORTATION_ID VARCHAR(50),
    CLASS_ID SMALLINT,
    FROM_STATION VARCHAR(50),
    TO_STATION VARCHAR(50),
    DEPARTURE_TIMESTAMP TIMESTAMP,
    ARRIVAL_TIMESTAMP TIMESTAMP,
    AVAILABLE_SEATS SMALLINT,

    PRIMARY KEY(TRANSPORTATION_ID, CLASS_ID, JOURNEY_DEPARTURESTAMP,
DEPARTURE_TIMESTAMP),
    FOREIGN KEY (TRANSPORTATION_ID, CLASS_ID) REFERENCES
TRANSPORTATION_CLASS(TRANSPORTATION_ID, CLASS_ID)
);

```

```

CREATE TABLE TRANSPORTATION_FARES(
    TRANSPORTATION_ID VARCHAR(50),
    CLASS_ID SMALLINT,
    BASE_PRICE FLOAT(4) NOT NULL,
    BREAKFAST INT ,
    LUNCH INT ,
    DINNER INT ,
    ZERO_CANCELLATION INT ,
    TAXES FLOAT(4) NOT NULL,

    PRIMARY KEY (TRANSPORTATION_ID, CLASS_ID),
    FOREIGN KEY (TRANSPORTATION_ID, CLASS_ID) REFERENCES
TRANSPORTATION_CLASS(TRANSPORTATION_ID, CLASS_ID)
);

```

```

CREATE TABLE TRANSPORTATION_REFUND_RULES(
    TRANSPORTATION_ID VARCHAR(50),
    CLASS_ID SMALLINT,
    GRACE_PERIOD SMALLINT NOT NULL,
    CANCELLATION_PENALTY INT NOT NULL,

```

```
PRIMARY KEY(TRANSPORTATION_ID, CLASS_ID, GRACE_PERIOD),  
FOREIGN KEY (TRANSPORTATION_ID, CLASS_ID) REFERENCES  
TRANSPORTATION_CLASS(TRANSPORTATION_ID, CLASS_ID)  
);
```

–PACKAGE

```
CREATE TABLE PACKAGE(  
    PACKAGE_ID SMALLINT,  
    PACKAGE_NAME VARCHAR(50),  
    STARTING_PRICE INT,  
  
    PRIMARY KEY (PACKAGE_ID)  
);
```

```
CREATE TABLE OFFERS(  
    OFFER_ID SMALLINT,  
    PACKAGE_ID SMALLINT,  
    OFFER_NAME VARCHAR(50),  
    START_CITY VARCHAR(50),  
    NO_OF_DAYS SMALLINT,  
    NO_OF_NIGHTS SMALLINT,  
    NO_OF_ACCOMMODATIONS SMALLINT,  
    NO_OF_TRANSPORTATIONS SMALLINT,  
    PRICE INT,  
  
    PRIMARY KEY (OFFER_ID,PACKAGE_ID),  
    FOREIGN KEY (PACKAGE_ID) REFERENCES PACKAGE (PACKAGE_ID)  
);
```

```
CREATE TABLE OFFER_CITIES(  
    OFFER_ID SMALLINT,  
    PACKAGE_ID SMALLINT,  
    DAY_NO SMALLINT,  
    CITY VARCHAR(50),  
    NIGHT_STAY VARCHAR(50),  
  
    PRIMARY KEY (OFFER_ID,PACKAGE_ID, DAY_NO, CITY),  
    FOREIGN KEY (OFFER_ID, PACKAGE_ID) REFERENCES OFFERS (OFFER_ID, PACKAGE_ID)  
);
```

```
CREATE TABLE OFFER_DATES(  
    OFFER_ID SMALLINT,  
    PACKAGE_ID SMALLINT,  
    DATE_FROM DATE,  
    DATE_TO DATE,  
  
    PRIMARY KEY (OFFER_ID,PACKAGE_ID , DATE_FROM, DATE_TO),  
    FOREIGN KEY (OFFER_ID, PACKAGE_ID) REFERENCES OFFERS (OFFER_ID, PACKAGE_ID)  
);
```

```

CREATE TABLE OFFER_ACCOMMODATION(
    OFFER_ID SMALLINT,
    PACKAGE_ID SMALLINT,
    DAY_NO SMALLINT,
    ACCOMMODATION_ID VARCHAR(50),
    CHECK_IN_DATE DATE,
    CHECK_OUT_DATE DATE,
    ROOM_TYPE_ID INT,

    PRIMARY KEY (OFFER_ID, PACKAGE_ID, ACCOMMODATION_ID, CHECK_IN_DATE ,
CHECK_OUT_DATE),
    FOREIGN KEY (OFFER_ID, PACKAGE_ID) REFERENCES OFFERS (OFFER_ID, PACKAGE_ID),
    FOREIGN KEY (ACCOMMODATION_ID, ROOM_TYPE_ID) REFERENCES
ROOM_TYPE(ACCOMMODATION_ID, ROOM_TYPE_ID)

);

```

```

CREATE TABLE OFFER_TRANSPORTATION(
    OFFER_ID SMALLINT,
    PACKAGE_ID SMALLINT,
    TRANSPORTATION_ID VARCHAR(50),
    FROM_STATION VARCHAR(50),
    TO_STATION VARCHAR(50),
    DEPARTURE_TIMESTAMP TIMESTAMP,
    ARRIVAL_TIMESTAMP TIMESTAMP,
    CLASS_ID SMALLINT,

    PRIMARY KEY (OFFER_ID, PACKAGE_ID, TRANSPORTATION_ID, ARRIVAL_TIMESTAMP,
DEPARTURE_TIMESTAMP),

    FOREIGN KEY (OFFER_ID, PACKAGE_ID) REFERENCES OFFERS (OFFER_ID, PACKAGE_ID),
    FOREIGN KEY (TRANSPORTATION_ID, CLASS_ID) REFERENCES
TRANSPORTATION_CLASS(TRANSPORTATION_ID, CLASS_ID),
    FOREIGN KEY(FROM_STATION) REFERENCES STATION(STATION_CODE),
    FOREIGN KEY(TO_STATION) REFERENCES STATION(STATION_CODE),

);

```

```

CREATE TABLE OFFER_FARES (
    OFFER_ID SMALLINT,
    PACKAGE_ID SMALLINT,
    TOTAL_ACCM_AMT FLOAT(10),
    TOTAL_TRANS_AMT FLOAT(10),
    TOTAL_TAXES FLOAT(10),

    PRIMARY KEY(OFFER_ID ,PACKAGE_ID ),
    FOREIGN KEY(OFFER_ID ,PACKAGE_ID) REFERENCES OFFERS(OFFER_ID ,PACKAGE_ID)

);

```

## –CONSUMER

```
CREATE TABLE CONSUMER(  
    CONSUMER_ID INT,  
    USERNAME VARCHAR(50) NOT NULL,  
    PASSWORD VARCHAR(50) NOT NULL,  
    PREV_PASSWORD VARCHAR(50),  
  
    PRIMARY KEY(CONSUMER_ID)  
);  
  
CREATE TABLE CONSUMER_PROFILE(  
    CONSUMER_ID INT,  
    FIRST_NAME VARCHAR(50) NOT NULL,  
    LAST_NAME VARCHAR(50) NOT NULL,  
    EMAIL_ID VARCHAR(50) NOT NULL,  
    MOBILE_NO VARCHAR(50),  
    DOB DATE NOT NULL,  
    AGE SMALLINT NOT NULL,  
    GENDER VARCHAR(50) NOT NULL,  
    CITY VARCHAR(50),  
    RATING SMALLINT,  
  
    PRIMARY KEY(CONSUMER_ID),  
    FOREIGN KEY (CONSUMER_ID) REFERENCES CONSUMER(CONSUMER_ID)  
);  
  
CREATE TABLE BANK_DETAILS(  
    ACCOUNT_NO BIGINT,  
    CONSUMER_ID INT,  
    ACCOUNT_HOLDER_NAME VARCHAR(50) NOT NULL,  
    IFSC_CODE VARCHAR(50),  
    UPI_ID VARCHAR(50),  
    CREDIT_CARD_NO BIGINT,  
    DEBIT_CARD_NO BIGINT,  
  
    PRIMARY KEY(ACCOUNT_NO, CONSUMER_ID),  
    FOREIGN KEY (CONSUMER_ID) REFERENCES CONSUMER(CONSUMER_ID)  
);
```

## –Booking

```
CREATE TABLE INVOICE_DETAILS(  
    INVOICE_ID VARCHAR(50),  
    TOTAL_AMOUNT INT,  
    TAXES INT,  
    CATEGORY_DISCOUNT INT,  
    GRAND_TOTAL INT,  
    TOTAL_AMOUNT_PAID INT,  
    AMOUNT_LEFT INT,  
    NEXT_INSTALLMENT DATE,  
  
    PRIMARY KEY(INVOICE_ID)  
);
```

```

CREATE TABLE BOOKING (
    BOOKING_ID INT,
    FACILITY_TYPE VARCHAR(50),
    CONSUMER_ID INT,
    INVOICE_ID VARCHAR(50),
    BOOKING_DATE DATE,
    NO_OF_TRAVELLERS SMALLINT,

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(CONSUMER_ID) REFERENCES CONSUMER(CONSUMER_ID),
    FOREIGN KEY(INVOICE_ID) REFERENCES INVOICE_DETAILS(INVOICE_ID)
);

```

```

CREATE TABLE TRANSACTION(
    TRANSACTION_ID VARCHAR(50),
    INVOICE_ID VARCHAR(10),
    TRANSACTION_MODE VARCHAR(50),
    AMOUNT FLOAT(10),
    TRANSACTION_TIMESTAMP TIMESTAMP,

    PRIMARY KEY(TRANSACTION_ID),
    FOREIGN KEY(INVOICE_ID) REFERENCES INVOICE_DETAILS(INVOICE_ID)
);

```

```

CREATE TABLE ACCOMMODATION_BOOKING(
    BOOKING_ID INT,
    ROOM_TYPE_ID INT,
    ACCOMMODATION_ID VARCHAR(50),
    CHECK_IN_DATE DATE,
    CHECK_OUT_DATE DATE,
    NO_OF_ROOMS SMALLINT,
    NO_OF_NIGHTS SMALLINT,
    BOOKING_STATUS VARCHAR(50),

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(BOOKING_ID) REFERENCES BOOKING(BOOKING_ID),
    FOREIGN KEY(ACCOMMODATION_ID,ROOM_TYPE_ID) REFERENCES
ROOM_TYPE(ACCOMMODATION_ID,ROOM_TYPE_ID)
);

```

```

CREATE TABLE ACCOMMODATION_ADD_ON(
    BOOKING_ID INT,
    BREAKFAST SMALLINT,
    LUNCH_OR_DINNER SMALLINT,
    DINNER SMALLINT,
    NO_OF_MATTRESSES SMALLINT,
    ZERO_CANCELLATION SMALLINT,

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(BOOKING_ID) REFERENCES ACCOMMODATION_BOOKING(BOOKING_ID)
);

```



```

CREATE TABLE TRANSPORTATION_BOOKING(
    BOOKING_ID INT,
    TRANSPORTATION_ID VARCHAR(50),
    CLASS_ID SMALLINT,
    FROM_STATION VARCHAR(50),
    TO_STATION VARCHAR(50),
    DEPARTURE_TIMESTAMP TIMESTAMP,
    ARRIVAL_TIMESTAMP TIMESTAMP,
    PNR INT,
    BOOKING_STATUS VARCHAR(50),

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(BOOKING_ID) REFERENCES BOOKING(BOOKING_ID),
    FOREIGN KEY(TRANSPORTATION_ID, CLASS_ID) REFERENCES
TRANSPORTATION_CLASS(TRANSPORTATION_ID, CLASS_ID)
    FOREIGN KEY(FROM_STATION) REFERENCES STATION(STATION_CODE),
    FOREIGN KEY(TO_STATION) REFERENCES STATION(STATION_CODE)
);

```

```

CREATE TABLE TRANSPORTATION_ADD_ON(
    BOOKING_ID INT,
    BREAKFAST SMALLINT,
    LUNCH SMALLINT,
    DINNER SMALLINT,
    ZERO_CANCELLATION SMALLINT,

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(BOOKING_ID) REFERENCES TRANSPORTATION_BOOKING (BOOKING_ID)
);

```

```

CREATE TABLE SEATS(
    BOOKING_ID INT,
    SEAT_NUMBER SMALLINT,

    PRIMARY KEY(BOOKING_ID,SEAT_NUMBER),
    FOREIGN KEY(BOOKING_ID) REFERENCES TRANSPORTATION_BOOKING(BOOKING_ID)
);

```

```

CREATE TABLE PACKAGE_BOOKING(
    BOOKING_ID INT,
    PACKAGE_ID SMALLINT,
    OFFER_ID SMALLINT,
    DATE_FROM DATE,
    DATE_TO DATE,

    PRIMARY KEY(BOOKING_ID),
    FOREIGN KEY(PACKAGE_ID, OFFER_ID, DATE_FROM, DATE_TO) REFERENCES
OFFER_DATES(PACKAGE_ID, OFFER_ID, DATE_FROM, DATE_TO)
);

```

```
CREATE TABLE PACKAGE_BOOKING_DETAILS(  
    PACKAGE_BOOKING_ID INT,  
    BACKEND_BOOKING_ID INT,  
    FACILITY_TYPE VARCHAR(50),  
  
    PRIMARY KEY(PACKAGE_BOOKING_ID, BACKEND_BOOKING_ID ),  
    FOREIGN KEY(PACKAGE_BOOKING_ID) REFERENCES PACKAGE_BOOKING(BOOKING_ID),  
    FOREIGN KEY(BACKEND_BOOKING_ID) REFERENCES BOOKING(BOOKING_ID)  
);
```

```
CREATE TABLE TRAVELLERS(  
    TRAVELLER_ID INT,  
    BOOKING_ID INT,  
    FIRST_NAME VARCHAR(50) NOT NULL,  
    LAST_NAME VARCHAR(50) NOT NULL,  
    AGE SMALLINT NOT NULL,  
    GENDER VARCHAR(50) NOT NULL,  
  
    PRIMARY_KEY(TRAVELLER_ID),  
    FOREIGN KEY (BOOKING_ID) REFERENCES BOOKING(BOOKING_ID)  
);
```

```
CREATE TABLE CANCELLATION(  
    CANCELLATION_ID INT,  
    BOOKING_ID INT,  
    CANCELLATION_DATE DATE,  
    CANCELLATION_CHARGE INT,  
    TOTAL_REFUNDABLE_AMOUNT INT,  
    REFUND_STATUS VARCHAR(50),  
  
    PRIMARY KEY(CANCELLATION_ID,BOOKING_ID),  
    FOREIGN KEY(BOOKING_ID) REFERENCES BOOKING(BOOKING_ID)  
);
```