Hitch-A-Ride

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The Problem

- People are constantly in need of convenient ways to travel
  - Affordable ride sharing
- Passengers and drivers should be able to easily contact one another
- Passengers should be able to choose their preferred method of payment
- Some passengers require disability accommodation
How Hitch-A-Ride Can Help

- Allow passengers and drivers to input their information
  - Vehicle, contact information, trip details, etc.
- Connect passengers with drivers on a matched trip
- Accommodates for cost and disabilities
- Drivers earn money from each completed trip
Old (Project 6) Logical Model
Logical Model
drop sequence disability_disability_id_SEQ;
drop sequence make_model_make_model_id_SEQ;
drop sequence pick_up_loc_loc_id_SEQ;
drop sequence trip_trip_id_SEQ;

CREATE SEQUENCE disability_disability_id_SEQ START WITH 100 NOCACHE ORDER ;
CREATE OR REPLACE TRIGGER disability_disability_id_TRG BEFORE
INSERT ON disability FOR EACH ROW WHEN (NEW.disability_id IS NULL) BEGIN :NEW.disability_id := disability_disability_id_SEQ.NEXTVAL;
END;
/

CREATE SEQUENCE make_model_make_model_id_SEQ START WITH 100 NOCACHE ORDER ;
CREATE OR REPLACE TRIGGER make_model_make_model_id_TRG BEFORE
INSERT ON make_model FOR EACH ROW WHEN (NEW.make_model_id IS NULL) BEGIN :NEW.make_model_id := make_model_make_model_id_SEQ.NEXTVAL;
END;
/

CREATE SEQUENCE pick_up_loc_loc_id_SEQ START WITH 100 NOCACHE ORDER ;
CREATE OR REPLACE TRIGGER pick_up_loc_loc_id_TRG BEFORE
INSERT ON pick_up_loc FOR EACH ROW WHEN (NEW.loc_id IS NULL) BEGIN :NEW.loc_id := pick_up_loc_loc_id_SEQ.NEXTVAL;
END;
/

CREATE SEQUENCE trip_trip_id_SEQ START WITH 100 NOCACHE ORDER ;
CREATE OR REPLACE TRIGGER trip_trip_id_TRG BEFORE
INSERT ON trip FOR EACH ROW WHEN (NEW.trip_id IS NULL) BEGIN :NEW.trip_id := trip_trip_id_SEQ.NEXTVAL;
END;
/
create view paypal_view as
SELECT
    user_id,
    user_first_name,
    user_last_name,
    user_phone_number,
    user_email,
    "payment method",
    account_username
FROM "user" where "payment method" = 'paypal';

create or replace TRIGGER paypal_trigger
    INSTEAD OF insert ON paypal_view
    FOR EACH ROW
BEGIN
    insert into "user"
        (user_id,
        user_first_name,
        user_last_name,
        user_phone_number,
        user_email,
        "payment method",
        account_username)
VALUES
    (NEW.user_id,
    NEW.user_first_name,
    NEW.user_last_name,
    NEW.user_phone_number,
    NEW.user_email,
    'paypal',
    NEW.account_username);
END;
/

Let’s go to the application!

ABOUT US:

HITCH-A-RIDE is an Austin based ride-sharing company, focused on connecting long distance travelers with drivers looking to make a few extra bucks.
DML: Insert Statements

```sql
-- Insert into user_disabilities
insert into user_disabilities(UD_id, user_id, disability_id)
  values(1,1,7);
insert into user_disabilities(UD_id, user_id, disability_id)
  values(2,1,5);
insert into user_disabilities(UD_id, user_id, disability_id)
  values(3,2,7);
insert into user_disabilities(UD_id, user_id, disability_id)
  values(4,5,7);
insert into user_disabilities(UD_id, user_id, disability_id)
  values(5,6,6);

-- Insert into pick_up_loc
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(1,1234, 'Fake Street', 'Houston', 'TX', 77777)
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(2,5678, 'Imaginary Lane', 'Houston', 'TX', 88888)
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(3,2468, 'False Way', 'Dallas', 'TX', 66666)
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(4,1357, 'Madeup Boulevard', 'Dallas', 'TX', 55555)
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(5,9876, 'Fabrication Drive', 'Austin', 'TX', 4444)
insert into pick_up_loc(loc_id, house_number, street_name, city, state, zip_code)
  values(6,1248, 'Nonexistent Parkway', 'Austin', 'TX', 33333)
```
Register Vehicle (pg 7)

Code Editor - SQL Query

```sql
-- Query to select user details and trip count
select
  user_last_name || ' ', user_first_name as Name,
  manufacturer || ' ' || model as Make_And_Model,
  email as Email,
  LICENSE_PLATE, 
  user_phone_number as Phone
from "user" u join car c
  on u.user_id = c.user_id 
  join make_model m
  on c.make_model_id = m.make_model_id
order by user_last_name || ' ', user_first_name
```

Trip Count (pg 17)

Code Editor - SQL Query

```sql
-- Query to count trip origins
select null, origin, count(origin) as Number_of_Trips
from trip
group by origin
order by origin
```
with count_query as (select trip_id, count(*) as passenger_count
  from TUI
  group by trip_id)

select t.TRIP_ID,
  ORIGIN,
  DESTINATION,
  DATE_TIME,
  CAPACITY,
  COST,
  manufacturer||' ||model as car,
  USER_last_name||' ||user_first_name as driver,
  passenger_count
from TRIP t join car c on t.car_id = c.car_id
  join make_model m on m.make_model_id = c.make_model_id
  join "user" u on t.user_id = u.user_id
  left outer join count_query cq on cq.trip_id = t.trip_id
where ((passenger_count < t.capacity) or (passenger_count is null) and (DATE_TIME >= (select to_char(sysdate, 'dd-mon-yyyy') from dual)))
order by date_time,origin,destination,cost
Passenger on this trip (pg18)

```sql
SELECT
    "TUI_ID",
    "TRIP_ID",
    user_last_name || ' ' || user_first_name as Name,
    user_email as Email,
    user_phone_number as Phone,
    house_number || ' ' || street_name || ' ' || city || ' ' || state || ' ' || zip_code as Pickup_Address
FROM "#OWNER#"."TUI"
JOIN "user" u ON TUI.user_id = u.user_id
JOIN pick_up_loc p ON TUI.loc_id = p.loc_id
WHERE "TRIP_ID" = :P18_TRIP_ID
```

User Disability (pg21)

```sql
SELECT "UD_ID",
    user_last_name || ' ' || user_first_name as Name,
    disability_name as Disability
FROM "#OWNER#"."USER_DISABILITIES" ud
JOIN "user" u ON u.user_id = ud.user_id
JOIN disability d ON ud.disability_id = d.disability_id
ORDER BY user_last_name, user_first_name, u.user_id
```