Bedtime stories for developers

Kesavan Muthuvel

- **Season 1 – Design the DB**
  - Episode 1 – Beware of null
  - Episode 2 – Beware of null (ext)
  - Episode 3 – TBD
- **Season 2 – Develop the code**
  - Episode 1 – Visualize the logic
  - Episode 2 – Think before ink
- **Season 3 – TBD**

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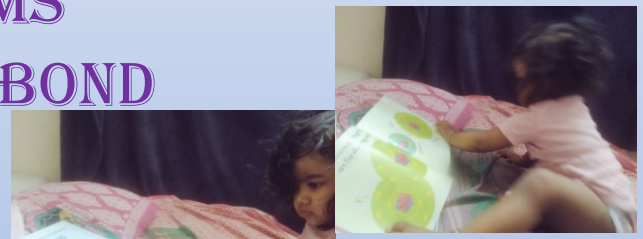
Bedtime stories for developers

AUTHOR'S QUALIFICATION

(*AKA* SHAMELESS SELF-PROMO)

- HAVE GOOD EXPERIENCE TAKING SESSIONS
- LATEST PROJECT - TEACHING 1YR KID
  - STRUCTURE OF ATOMS
  - IONIC VS COVALENT BOND
  - 1HR EVERY NIGHT



- not a tech session; no moral at end
- no recordings but more questions
- Feel free to nap in mid

Bedtime stories for developers

- **Season 1 – Design the DB**
  Episode 1 – Beware of NULL

Scene #1

Story starts with :

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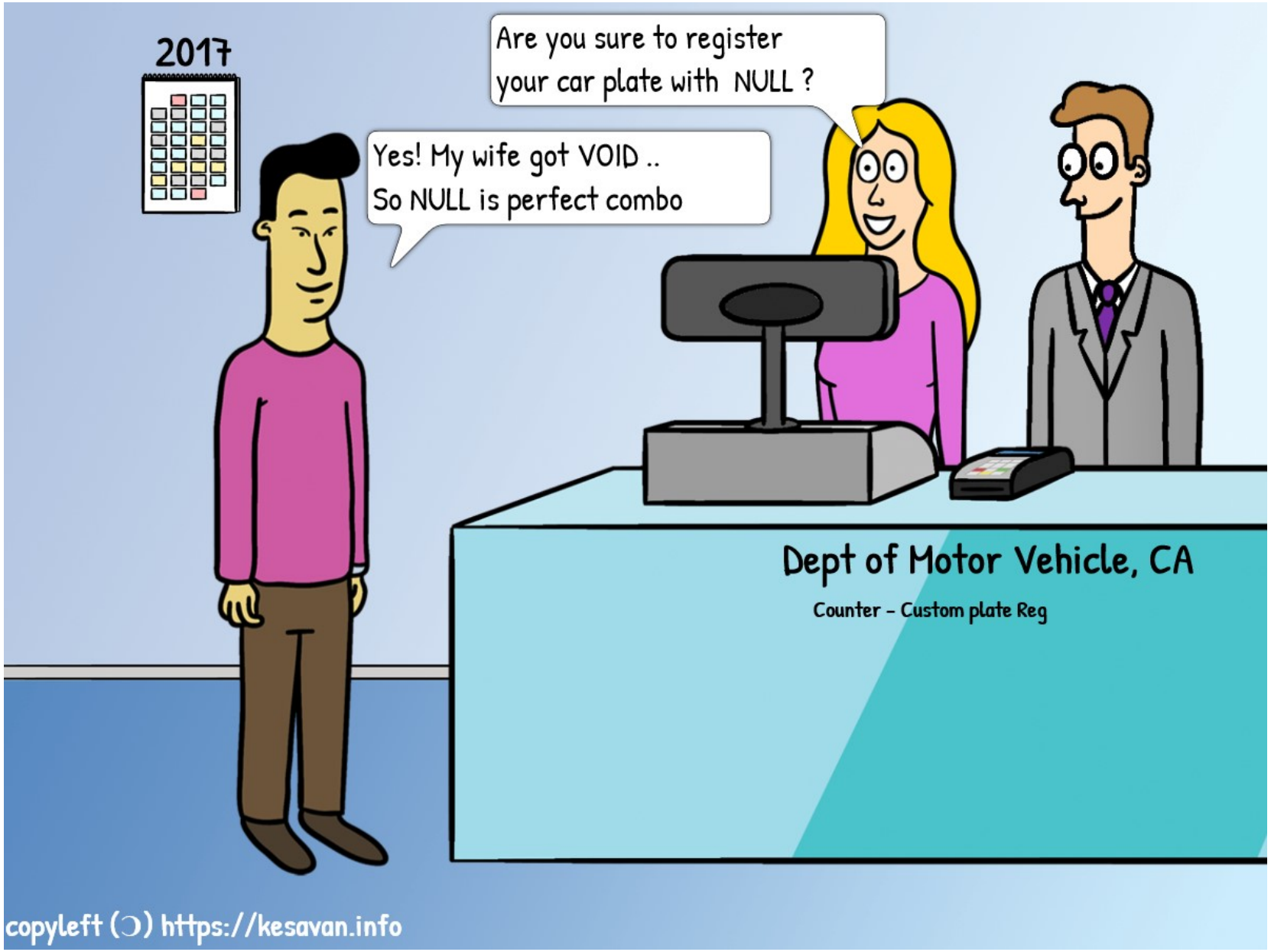
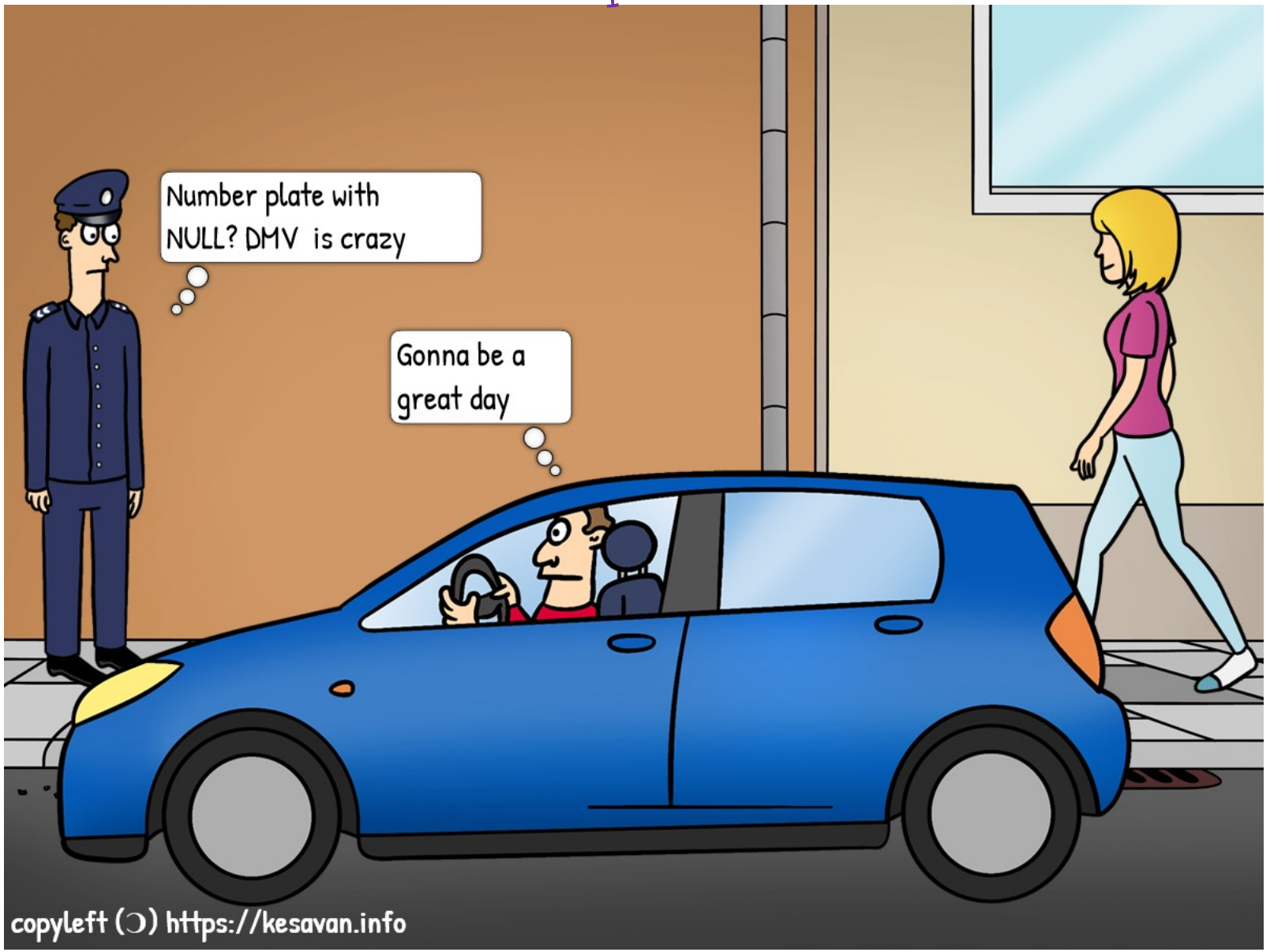


Scene #2

Grabbing attention



Scene #3

Hitting the bugs

Scene #4

Citations everywhere

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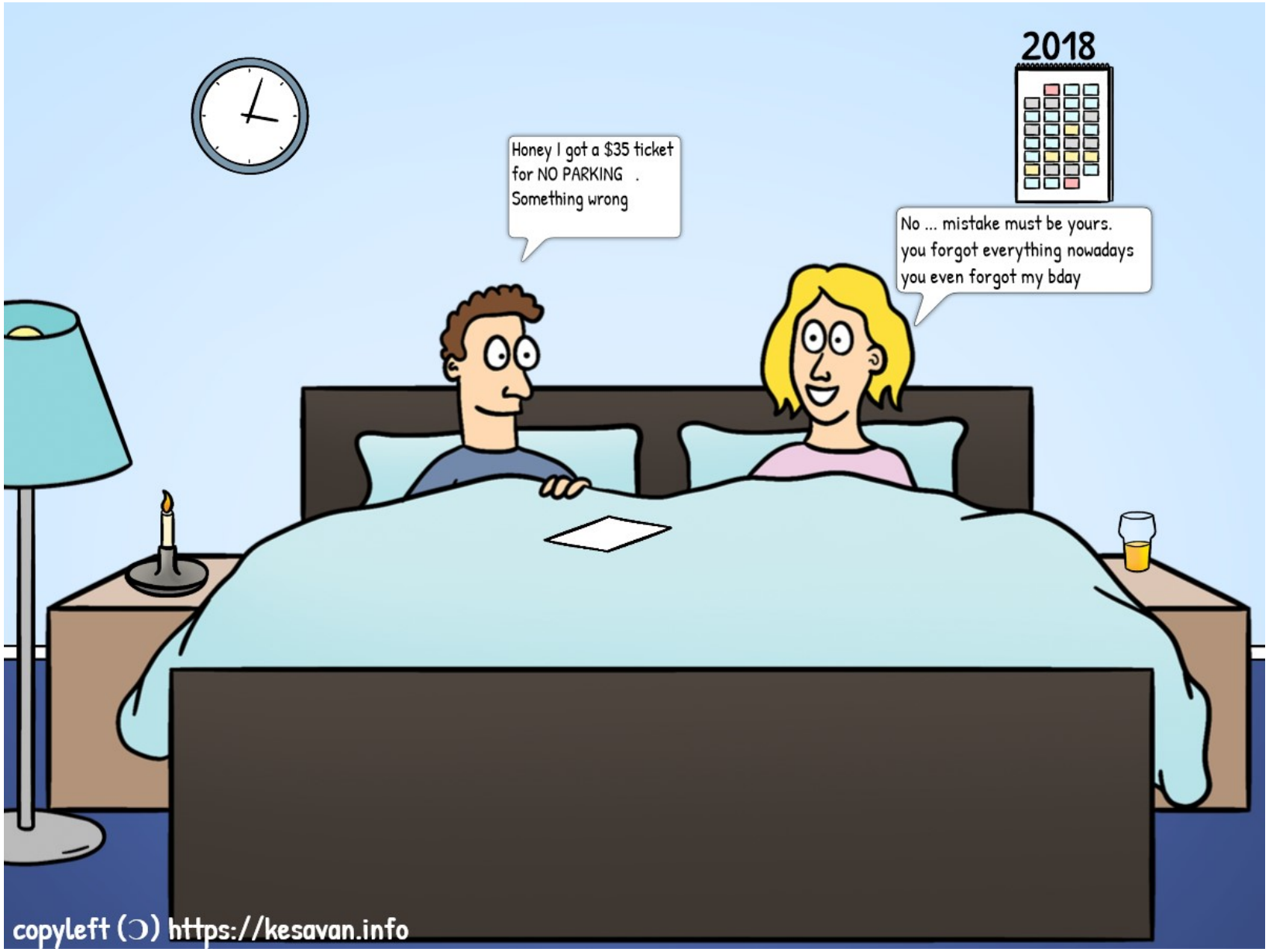

Scene #5

Worse to come …

Scene #6

X-ray'ing the CPC

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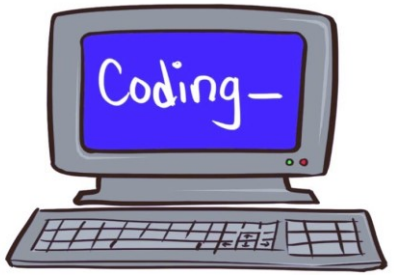


Top Secret : Citation Processing Center

```
kesavan@L17983(165.225.38.202)|~|2021-12-14 14:02:07
$bat /tmp/record.php
       File: /tmp/record.php
   1   <?php
   2   # author - low paid employee who work here w/o option
   3   # date   - the day boss refuse leave for gf's bday
   4   # use    - map number plate to ticket record
   5
   6   function recordTicket($rid){
   7    if($_POST('form_no_plate')){
   8      $number_plate = $_POST('form_no_plate');
   9    }else{
  10      $number_plate = 'NULL';
  11    }
  12    $sql = "UPDATE tbl_ticket SET number_plate=$number_plate WHERE id=$rid";
  13
  14    return TRUE;
  15   }
  16   ...
0 ✓ success ^ ^
```

Over speed ticket

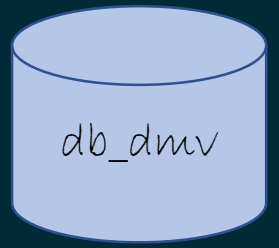
Date/Time
Number Plate
VIN
Color
Model

Submit Reset

```
mysql> SELECT * FROM tbl_ticket ; SELECT * FROM tbl_plate ; SELECT * FROM tbl_driver ;
+-----------+--------------+------------+
| ticket_id | number_plate | officer_id |
+-----------+--------------+------------+
|  20181968 | IAMBAD       |        321 |
|  20181969 | 234-567      |        654 |
|  20181970 | NULL         |        987 |
|  20181971 | 589-741      |        789 |
|  20181972 | 326-ZZR      |        456 |
+-----------+--------------+------------+
5 rows in set (0.00 sec)

+------+--------------+-----------+
| id   | number_plate | driver_id |
+------+--------------+-----------+
| 1572 | IAMBAD       |    874562 |
| 1573 | 234-567      |    256475 |
| 1574 | NULL         |    180976 |
| 1575 | 589-741      |    685472 |
| 1576 | 326-ZZR      |    125746 |
+------+--------------+-----------+
5 rows in set (0.00 sec)

+-----------+--------+---------+----------------+-------+
| driver_id | fname  | lname   | address        | zip   |
+-----------+--------+---------+----------------+-------+
|    180975 | james  | bond    | 777 moscow cr  | 99876 |
|    180976 | joseph | tartaro | 987 wow dr     | 99668 |
|    180977 | some   | random  | 555 new way #2 | 99741 |
+-----------+--------+---------+----------------+-------+
3 rows in set (0.00 sec)
```



Scene #7

Trap or loop ?

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Bedtime stories for developers – S1 E1

Scene #8

New York ? Houston ?
London? Madurai ?
Moon ? Mars ?
Corner in Milkyway?

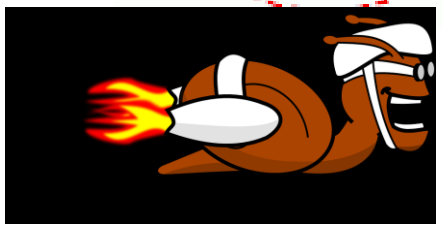
Over speed ticket

Date/Time
Number Plate
VIN
Color
Model

Submit Reset

$12049

- No matter where the over speed happen in this universe, our joseph always receive a ticket.
- Thanks to the developer who did the things in CPC



Scene END

Even the lord …

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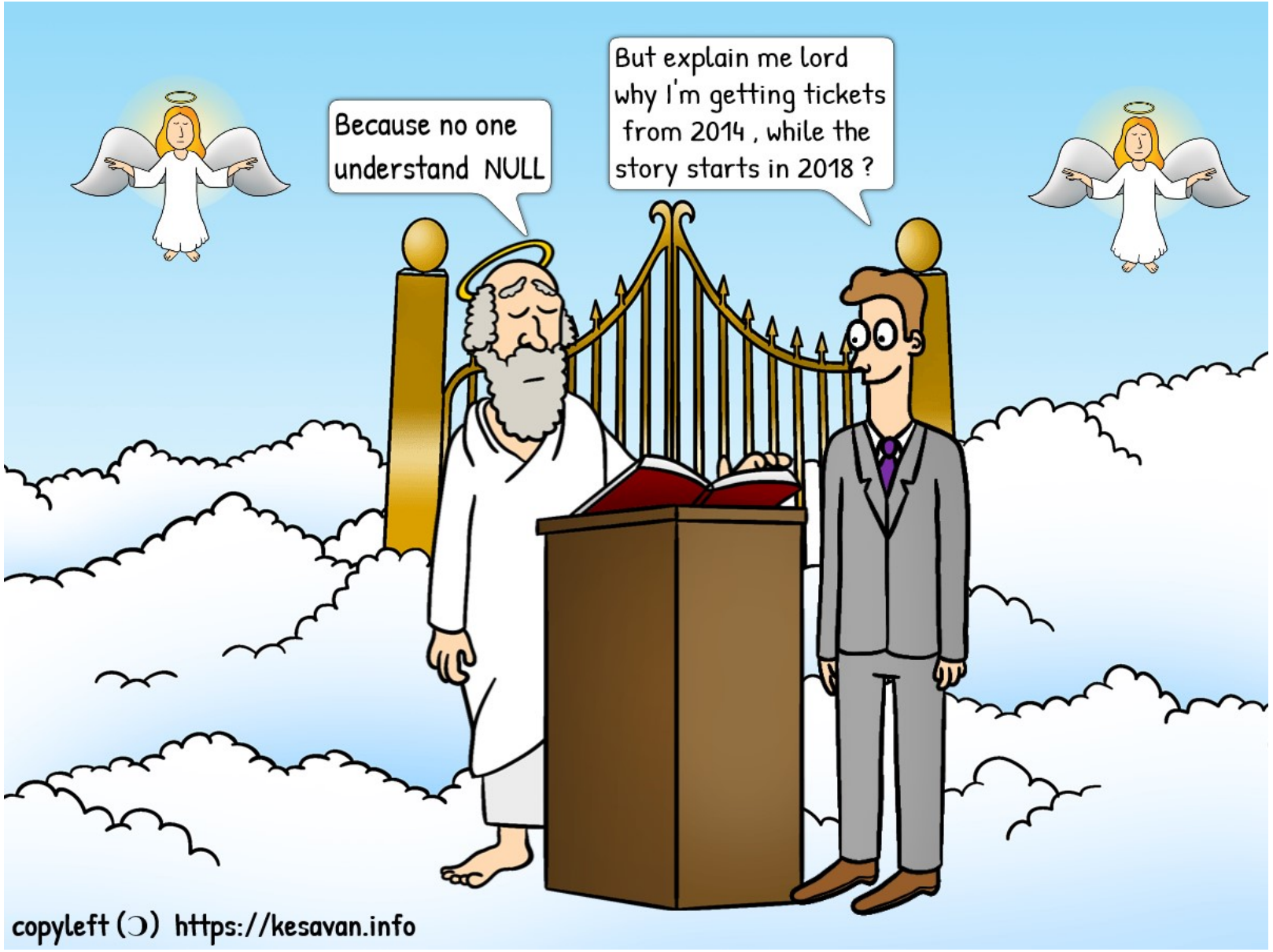

Bedtime stories for developers

- **Season 1 – Design the DB**
  Episode 2 – Beware of NULL (extended)

Scene #1

Nerdy gets a kid

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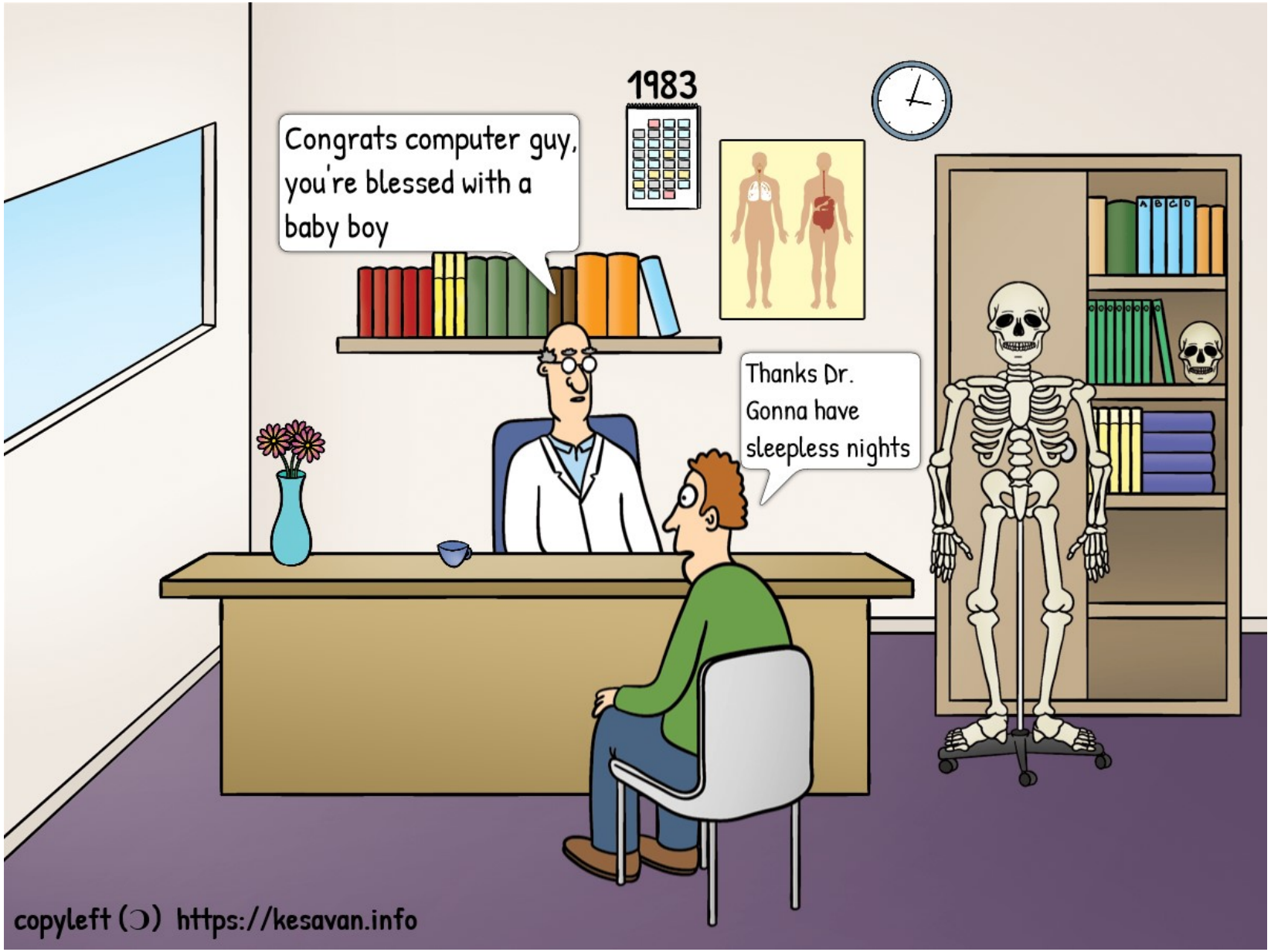

Scene #2

And he’s priceless …

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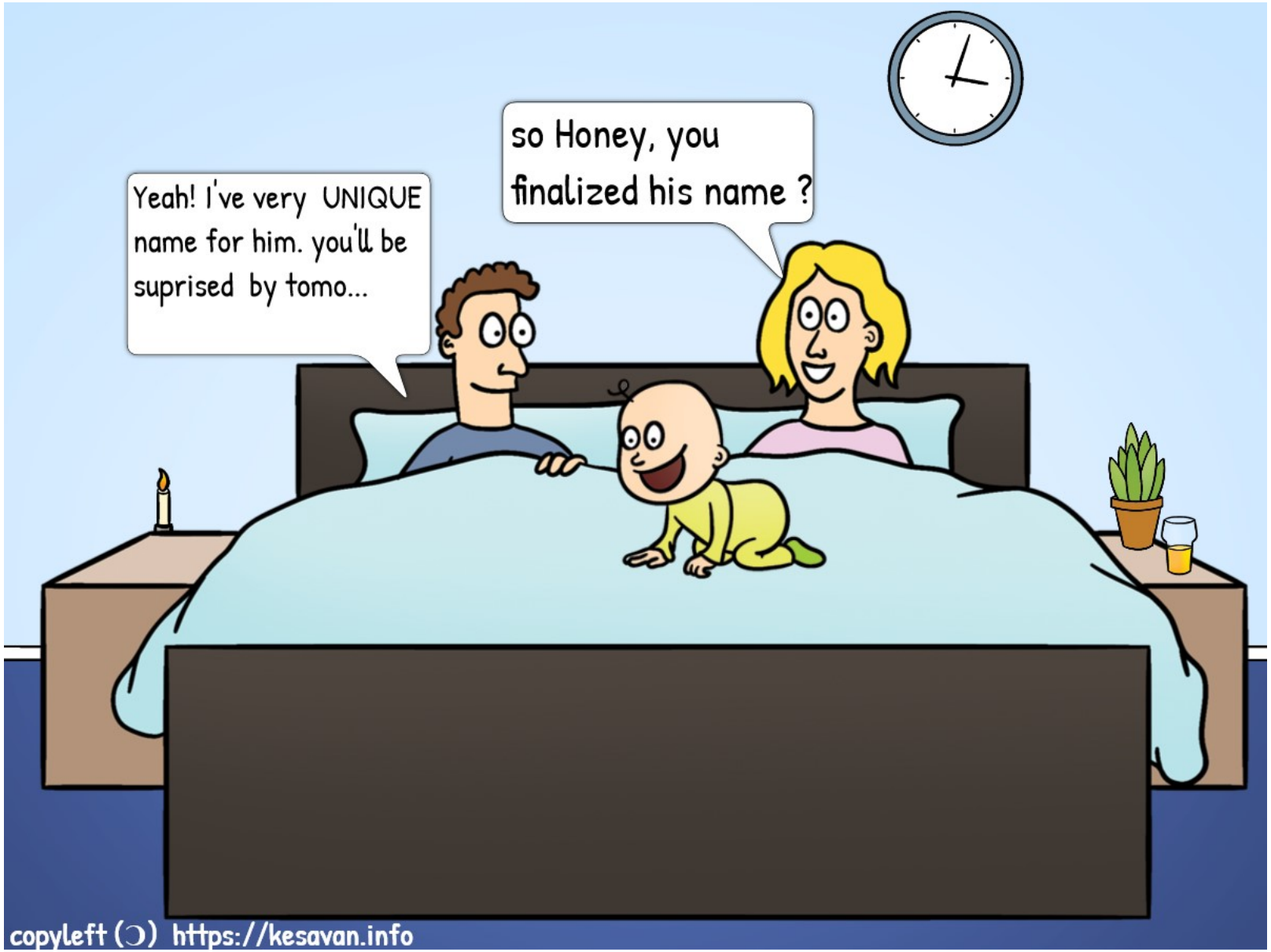

Scene #3

INT/0 == NULL

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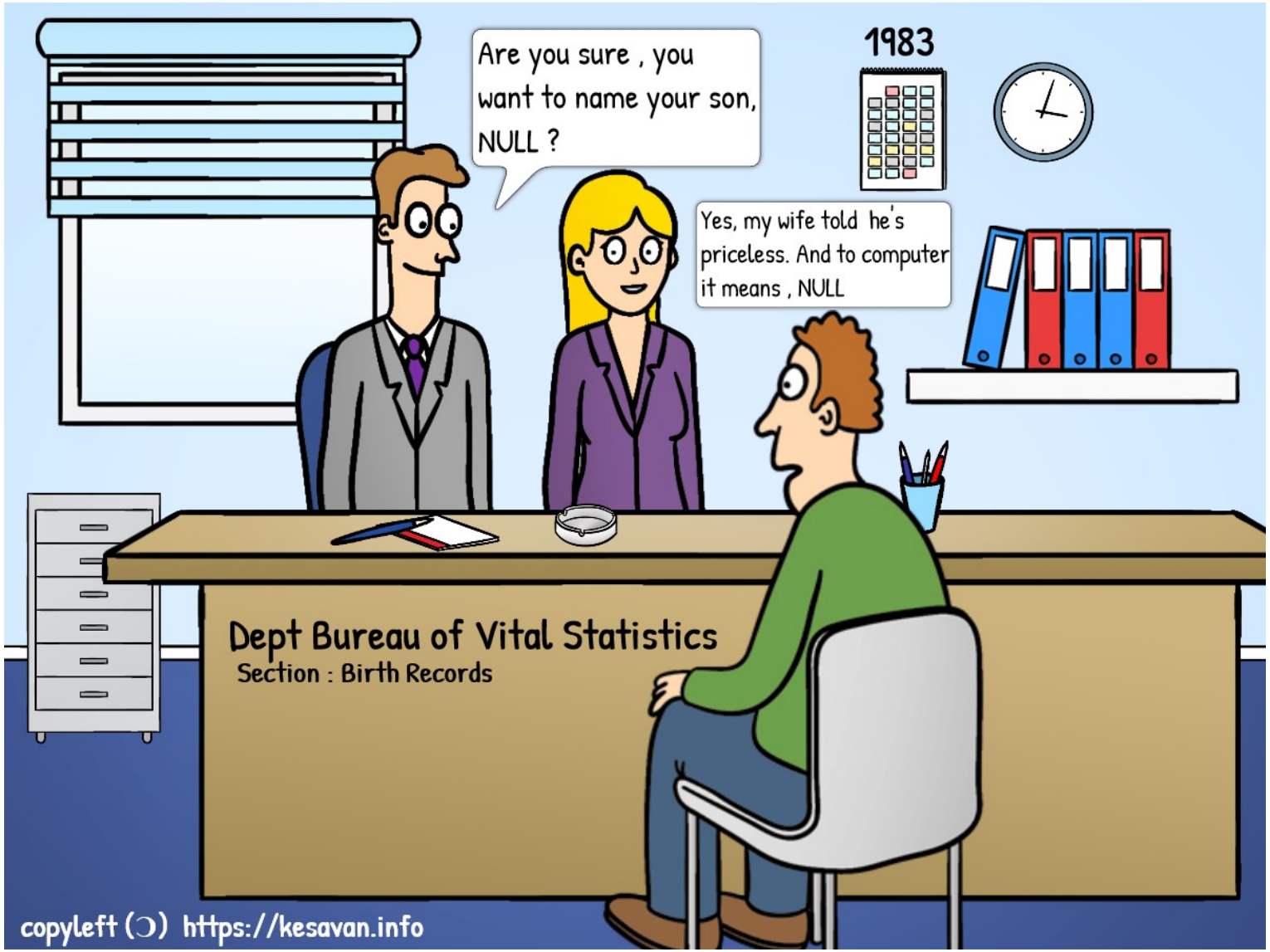

Scene #4

NULL has a SSN

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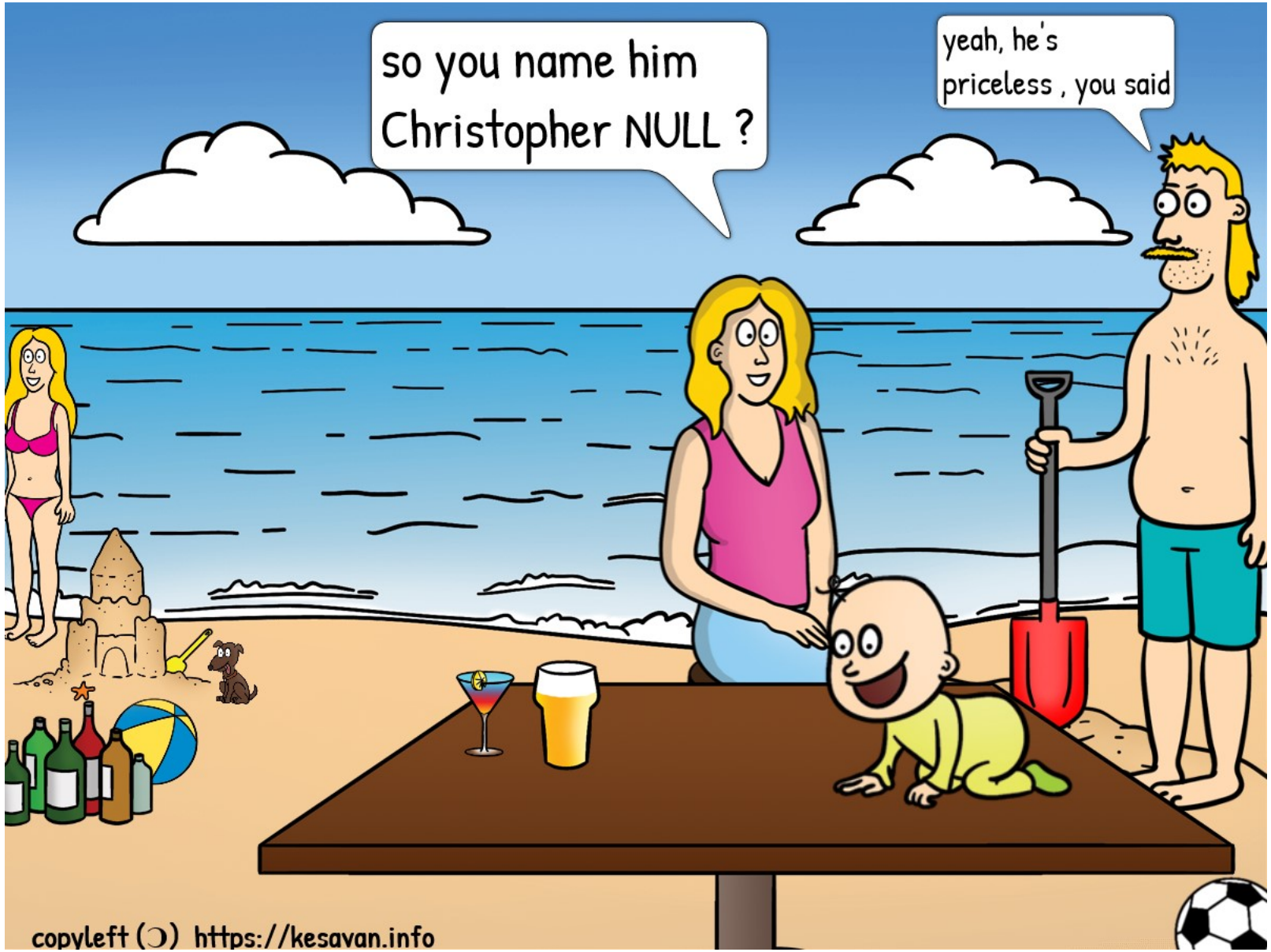

Scene #5

NULL starts NULL LLC

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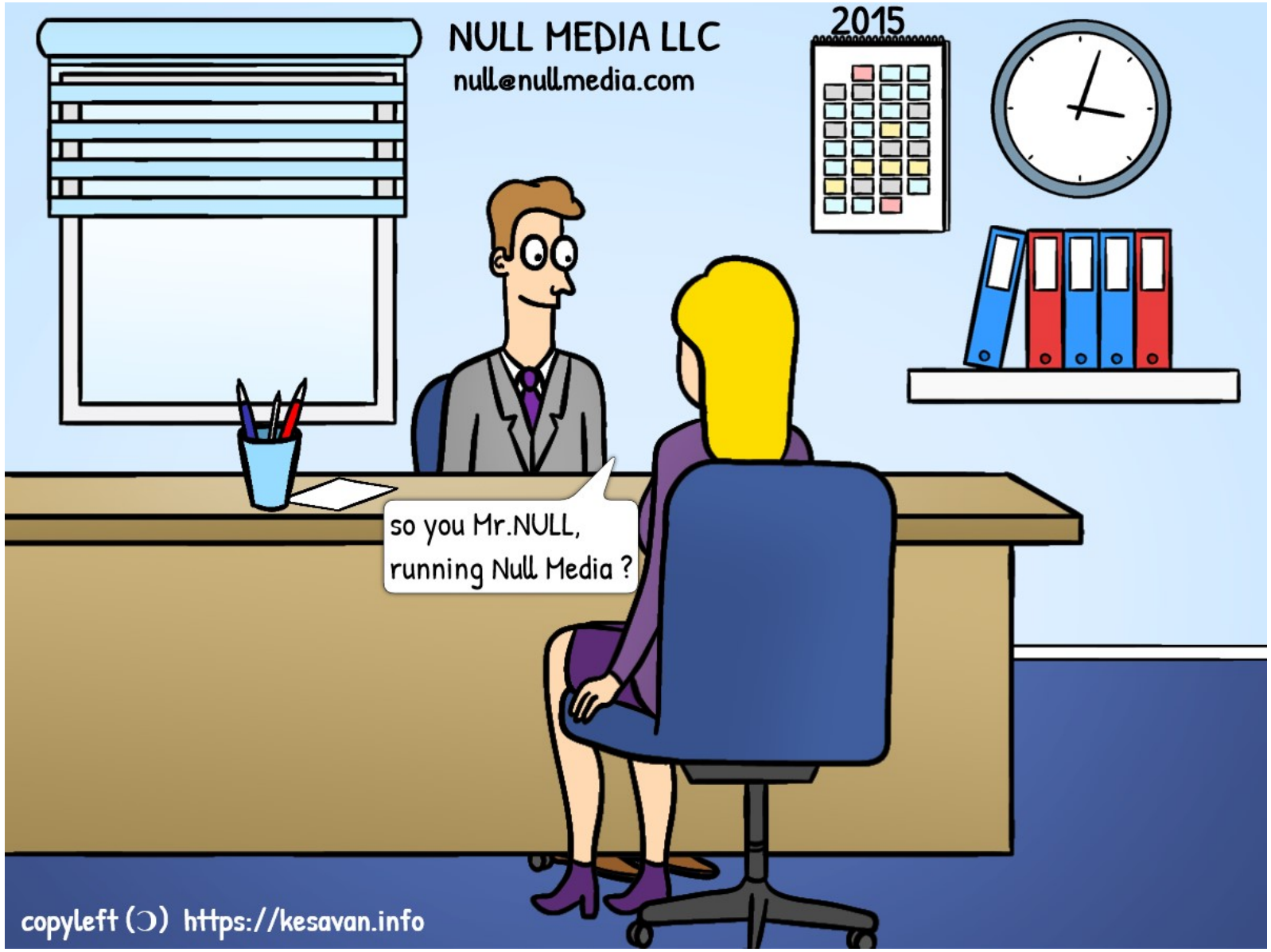

Scene #6

Trouble at BoA now

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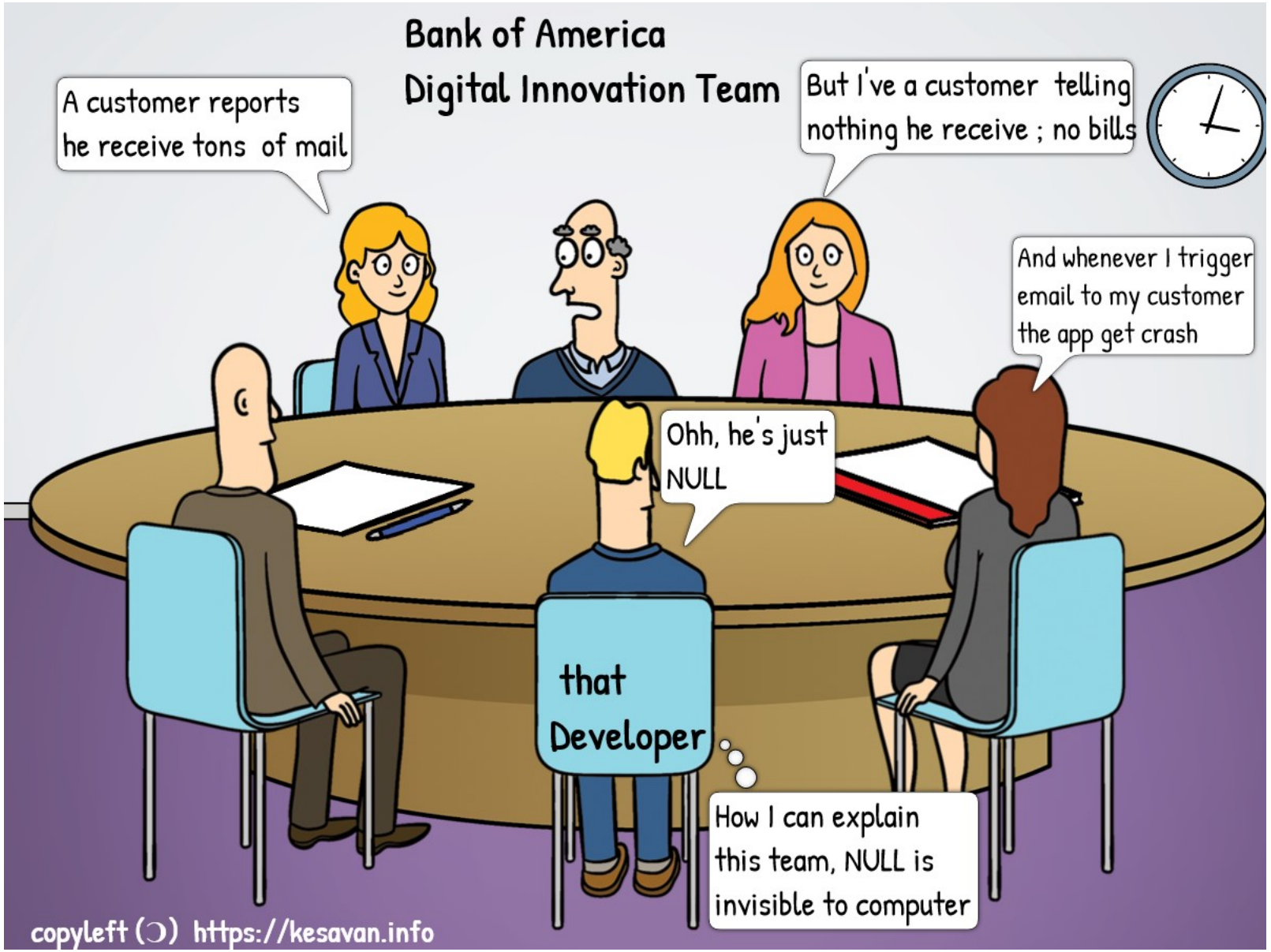

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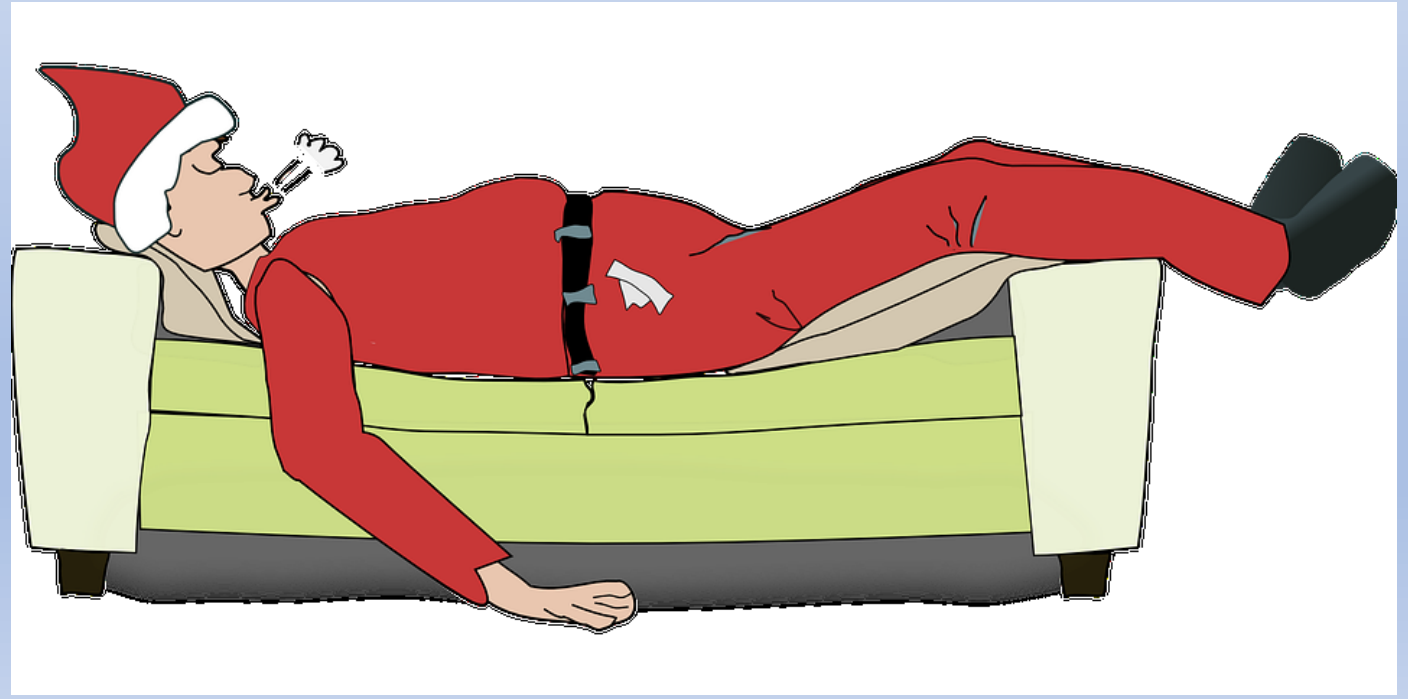
- **THANKS …TIME TO NAP**