PACKAGE DOCUMENTATION
(QUERIES USED IN THE PACKAGE)

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JOINS

THE ADVERTISEMENT TABLE IN THE PACKAGE CONSIST ONLY LESS DETAILS ABOUT THE PRODUCTS IN THE PLATFORM ALONG WITH FEW USER DETAILS WHICH IS NOT COMPLETE INFORMATION FOR THE USER TO VIEW

SOLUTION

USE JOINS TO VIEW THE TABLES DESCRIBING EACH PRODUCT
(Bikes,car,television,camera,speakers,mobile,laptop,books)
ALONG WITH ADVERTISEMENT TABLE DETAILS FOR COMPLETE INFORMATION VIEW

SOURCE CODE

1.BIKES

```sql
select a.advt_id,a.owner_id,b.model_name,b.manufacturer,
b.year_of_purchase,b.kilometers_driven,a.buyer_id from
advertisement a inner join bikes b on a.advt_id=b.product_id;
```

2.CAR

```sql
select a.advt_id,a.owner_id,b.manufacturer,b.year_of_purchase,
b.kilometers_driven,b.fueltype,a.buyer_id from advertisement a
inner join car b on a.advt_id=b.product_id;
```

3.TELEVISION

```sql
select a.advt_id,a.owner_id,b.model_name,b.manufacturer,
b.year_of_purchase,b.inches,a.buyer_id from advertisement a
inner join television b on a.advt_id=b.product_id;
```

4..CAMERA

```sql
select a.advt_id,a.owner_id,b.model_name,b.manufacturer,
b.year_of_purchase,b.battery_status,a.buyer_id from
advertisement a inner join camera b on a.advt_id=b.product_id;
```

5.SPEAKERS

```sql
select a.advt_id,a.owner_id,b.manufacturer,b.year_of_purchase,
a.buyer_id from advertisement a inner join speakers b on
a.advt_id=b.product_id;
```

6.MOBILE

```sql
select a.advt_id,a.owner_id,b.manufacturer,b.model_name,
b.year_of_purchase,a.buyer_id from advertisement a inner join
mobile b on a.advt_id=b.product_id;
```

7.LAPTOP

```sql
select a.advt_id,a.owner_id,b.manufacturer,b.model_name,
b.year_of_purchase,b.battery_status,a.buyer_id from
advertisement a inner join laptop b on a.advt_id=b.product_id;
```

8.BOOKS

```sql
select a.advt_id,a.owner_id,b.name_of_book,b.condition_book,
a.buyer_id from advertisement a inner join book b on
a.advt_id=b.product_id;
```

TRIGGERS

THE BASIC CHARACTERISTIC OF ANY USER FORMS OR USER INPUTS IS THE "VALIDATION" OF THE INPUTS ENTERED.THIS IS USUALLY DONE THROUGH JAVASCRIPT IN A FRONTEND BASED PACKAGE.

IN THIS DBMS PACKAGE , "BEFORE INSERT TRIGGERS" ARE USED TO VALIDATE THE INPUTS ENTERED BY THE USER AND DISPLAY MESSAGES ACCORDINGLY FOR EACH TABLE (Bikes,car,television,camera,speakers,mobile,laptop,books)

HERE, INPUT DATA IS RECEIVED TO THE TABLES WHEN ANY USER ADVETISES HIS/HER PRODUCTS

Laptop	Mobile	Speakers	Books	Bike	Cars	Cameras	Television

Post an Advertisement

Model Name	Model Name
Manufacturer	Manufacturer
Year of Purchase	Year of Purchase
Kilometers driven	Kilometers driven
Ad description	Ad description
Expected Price	Expected Price
	Submit

SOURCE CODE

1.BIKES

```
CREATE TRIGGER `before_insert_on_bikes` BEFORE INSERT ON `bikes`
FOR EACH ROW BEGIN

if new.kilometers_driven<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check kilometere driven!!!'; end if;
if new.expected_price<=0 then
```

```sql
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;


END
```

2.CAR

```sql
CREATE TRIGGER `before_insert_on_car` BEFORE INSERT ON `car`
FOR EACH ROW BEGIN

if new.kilometers_driven<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check kilometere driven!!!'; end if;
if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;


END
```

3.TELEVISION

```sql
CREATE TRIGGER `before_insert_on_television` BEFORE INSERT ON
`television`
FOR EACH ROW BEGIN

if new.inches<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check inches!!!'; end if;
if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
```

```sql
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;


END
```

4..CAMERA

```sql
CREATE TRIGGER `before_insert_on_camera` BEFORE INSERT ON
`camera`
FOR EACH ROW BEGIN

if new.battery_status<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check battery status!!!'; end if;
if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
```

5.SPEAKERS

```sql
CREATE TRIGGER `before_insert_on_speakers` BEFORE INSERT ON
`speakers`
FOR EACH ROW BEGIN


if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;
```

```
END
```

6.MOBILE

```
CREATE TRIGGER `before_insert_on_mobile` BEFORE INSERT ON
`mobile`
FOR EACH ROW BEGIN


if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;

END
```

7.LAPTOP

```
CREATE TRIGGER `before_insert_on_laptop` BEFORE INSERT ON
`laptop`
FOR EACH ROW BEGIN

if new.battery_status<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check battery status!!!'; end if;
if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;
if YEAR(CURRENT_DATE)-new.year_of_purchase<0 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check year!!!'; end if;

END
```

8.BOOKS

```sql
CREATE TRIGGER `before_insert_on_books` BEFORE INSERT ON
`book`
FOR EACH ROW BEGIN


if new.expected_price<=0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check price!!!';
end if;


END
```

9.USERS

```sql
CREATE TRIGGER `before_insert_on_users` BEFORE INSERT ON
`users`
FOR EACH ROW BEGIN

if new.Mobile_no<0 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Check number!!!'; end if;


END
```

PROCEDURES

1.TO UPDATE USER PASSWORD IN USERS TABLE WHEN USER WANTS TO CHANGE OR RESET PASSWORD

```sql
DELIMITER $$
```

```sql
CREATE DEFINER=`root`@`localhost` PROCEDURE
`change_password`(IN `new_pwd` VARCHAR(50), IN `eid`
VARCHAR(50))
    NO SQL
begin

    UPDATE `users`
        SET User_password=new_pwd where Nitc_email_id=eid;

end$$

DELIMITER ;
```

2.WHEN A NEW BUYER BUYS A PRODUCT,THEIR NEW MAIL ID MUST BE UPDATED TO THE ADVERTISEMENT TABLE,BUYER_ID ATTRIBUTE

```sql
DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `buyer_update`(IN
`new_mail` VARCHAR(50), IN `omail` VARCHAR(50))
    NO SQL
begin

  UPDATE `advertisement`
    SET buyer_id=new_mail where owner_id=omail;

end$$
DELIMITER ;
```

TABLE_CREATION AND INSERTION

```sql
--
-- Table structure for table `advertisement`
--

CREATE TABLE `advertisement` (
  `advt_id` int(100) NOT NULL,
```

```sql
  `item_name` varchar(255) DEFAULT NULL,
  `item_type` varchar(255) DEFAULT NULL,
  `date_of_init` varchar(255) DEFAULT NULL,
  `date_of_exp` varchar(255) DEFAULT NULL,
  `owner_id` varchar(255) DEFAULT NULL,
  `buyer_id` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


--
-- Dumping data for table `advertisement`
--

INSERT INTO `advertisement` (`advt_id`, `item_name`,
`item_type`, `date_of_init`, `date_of_exp`, `owner_id`,
`buyer_id`) VALUES
(1, 'Hp Probook 4420', 'Laptop', '2018-10-07', '2018-10-17',
'kenil@gmail.com', 'madhu@gmail.com'),
(2, 'Dell Vostro', 'Laptop', '2018-10-07', '2018-10-17',
'praj12121998@gmail.com', 'kenil@gmail.com'),
(3, 'Lenovo think pad', 'Laptop', '2018-10-07', '2018-10-17',
'praj12121998@gmail.com', 'surabh@gmail.com'),
(4, 'IPHONE TEN !! 256Gb Fresh Condition So Dont Miss',
'Mobile', '2018-10-07', '2018-10-17',
'praj12121998@gmail.com', 'madhu@gmail.com'),
(5, 'J7 prime 32gb new condition,negotiable', 'Mobile',
'2018-10-07', '2018-10-17', 'surabh@gmail.com',
'praj12121998@gmail.com'),
(6, ' Redmi 4 3gb ram, 32gb internal', 'Mobile', '2018-10-07',
'2018-10-17', 'surabh@gmail.com', NULL),
(7, 'System Software  3rd', 'Book', '2018-10-07',
'2018-10-17', 'surabh@gmail.com', 'madhu@gmail.com'),
(8, 'Computers as components ', 'Book', '2018-10-07',
'2018-10-17', 'surabh@gmail.com', 'praj12121998@gmail.com'),
(9, 'Operating system concept-8th edition', 'Book',
'2018-10-07', '2018-10-17', 'vinod@gmail.com', NULL),
(10, 'HP 6510 ', 'Laptop', '2018-10-07', '2018-10-17',
'vinod@gmail.com', NULL),
(11, 'Dell Inspiron', 'Laptop', '2018-10-07', '2018-10-17',
'vinod@gmail.com', NULL),
(39, 'Television', 'television', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
(40, 'Car', 'Car', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
```

```sql
(46, 'Nikon', 'camera', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
(47, 'Audioc', 'Speakers', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
(48, 'Ecosport', 'Car', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
(49, 'R15', 'Bike', '2020-11-20', '2020-11-30',
'madhu@gmail.com', NULL),
(50, 'Dio', 'Bike', '2020-11-20', '2020-11-30',
'madhu@gmail.com', 'kenil@gmail.com'),
(51, 'Canon', 'camera', '2020-11-20', '2020-11-30',
'praj12121998@gmail.com', NULL),
(52, 'Canon', 'Speakers', '2020-11-21', '2020-12-01',
'kenil@gmail.com', 'praj12121998@gmail.com'),
(57, 'Audi A6', 'Car', '2020-11-21', '2020-12-01',
'razeen@gmail.com', 'madhu@gmail.com');

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

--
-- Table structure for table `author`
--

CREATE TABLE `author` (
 `product_id` int(100) NOT NULL,
 `author_name` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `author`
--

INSERT INTO `author` (`product_id`, `author_name`) VALUES
(7, ' D Manjula'),
(7, 'Leland l beck'),
(8, 'Wayne Wolf'),
(9, 'A silberschatz'),
(9, 'Gagne'),
(9, 'P Galvin');

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

--
-- Table structure for table `bikes`
```

```sql
--

CREATE TABLE `bikes` (
  `product_id` int(200) NOT NULL,
  `manufacturer` varchar(255) DEFAULT NULL,
  `model_name` varchar(255) DEFAULT NULL,
  `year_of_purchase` varchar(255) DEFAULT NULL,
  `kilometers_driven` bigint(200) NOT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `bikes`
--

INSERT INTO `bikes` (`product_id`, `manufacturer`,
`model_name`, `year_of_purchase`, `kilometers_driven`,
`ad_description`, `expected_price`) VALUES
(49, 'Yamaha', 'R15', '2002', 97800, 'Good mileage and
negotiable price', '35000'),
(50, 'suzuki', 'Dio', '1998', 23000, 'compact vehicle with
recently replaced new tyres', '22000');




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

--
-- Table structure for table `book`
--

CREATE TABLE `book` (
  `product_id` int(100) NOT NULL,
  `name_of_book` varchar(255) DEFAULT NULL,
  `condition_book` varchar(255) DEFAULT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `book`
--
```

```sql
INSERT INTO `book` (`product_id`, `name_of_book`,
`condition_book`, `ad_description`, `expected_price`) VALUES
(7, 'System Software  3rd', ' Very Good', 'Important book for
Software development', '199'),
(8, 'Computers as components ', 'Good', '2nd Edition ',
'299'),
(9, 'Operating system concept-8th edition', 'Almost New',
'Useful for Computer Science students', '299');


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

--
-- Table structure for table `camera`
--

CREATE TABLE `camera` (
 `product_id` int(200) NOT NULL,
 `manufacturer` varchar(255) DEFAULT NULL,
 `model_name` varchar(255) DEFAULT NULL,
 `year_of_purchase` varchar(225) DEFAULT NULL,
 `battery_status` varchar(255) DEFAULT NULL,
 `ad_description` varchar(255) DEFAULT NULL,
 `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `camera`
--

INSERT INTO `camera` (`product_id`, `manufacturer`,
`model_name`, `year_of_purchase`, `battery_status`,
`ad_description`, `expected_price`) VALUES
(46, 'nikes', 'STAR', '2002', '5 hours', 'Great deal in lowest
price', '2300'),
(51, 'crie', 'IPV4', '2000', '6 hours ', 'Undamaged camera in
unimaginable price', '1700');


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

--
```

```sql
-- Table structure for table `car`
--

CREATE TABLE `car` (
  `product_id` int(100) NOT NULL,
  `model_name` varchar(255) DEFAULT NULL,
  `manufacturer` varchar(255) DEFAULT NULL,
  `year_of_purchase` varchar(255) DEFAULT NULL,
  `fueltype` varchar(225) DEFAULT NULL,
  `kilometers_driven` bigint(200) DEFAULT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


--
-- Dumping data for table `car`
--

INSERT INTO `car` (`product_id`, `model_name`, `manufacturer`,
`year_of_purchase`, `fueltype`, `kilometers_driven`,
`ad_description`, `expected_price`) VALUES
(40, NULL, 'samsung', '2020', 'diesel', 7855, 'qwsa', '1234'),
(48, NULL, 'Ford', '2017', 'diesel', 45000, 'Brown coloured
car with average mileage of 25 kms', '400000'),
(57, NULL, 'audi', '2000', 'petrol', 23000, 'New car with good
maintenance', '1100000');




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


--
-- Table structure for table `contact`
--

CREATE TABLE `contact` (
  `firstname` varchar(50) DEFAULT NULL,
  `lastname` varchar(50) DEFAULT NULL,
  `email` varchar(50) DEFAULT NULL,
  `user_message` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


--
-- Dumping data for table `contact`
```

```sql
--

INSERT INTO `contact` (`firstname`, `lastname`, `email`,
`user_message`) VALUES
('Madhu', 'SK', 'Madhu2k2.in@gmail.com', 'Test message for
backend'),
('Razeen', 'Aman', 'Raz@gmail.com', 'Backend test 2');

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

--
-- Table structure for table `laptop`
--

CREATE TABLE `laptop` (
  `product_id` int(100) NOT NULL,
  `manufacturer` varchar(255) DEFAULT NULL,
  `model_name` varchar(255) DEFAULT NULL,
  `year_of_purchase` varchar(255) DEFAULT NULL,
  `battery_status` varchar(255) DEFAULT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `laptop`
--

INSERT INTO `laptop` (`product_id`, `manufacturer`,
`model_name`, `year_of_purchase`, `battery_status`,
`ad_description`, `expected_price`) VALUES
(1, 'HP', 'HPS12/9Q2378256iA2', '2017', ' 3 hours battery',
'Hp Probook 4420 i5 / 4 GB / 320 GB / dvd writer/ WiFi /webcam
/14.0/ good working condition.', '10500'),
(2, 'DELL', 'DV1290', '2015', '2 hours battery', '4 GB ram/
500 GB hard disk/ 15.6 led screen good working condition',
'9999'),
(3, 'Lenovo', 'LT7462/i2329', '2010', '2 hours battery
backup', 'Lenovo think pad. i3 2nd / 4 gb / 320 gb / 14.0
screen wifi / webcam / good working condition', '9500'),
(10, 'HP', 'HP9778675', '2012', ' 3 hours battery', 'Intel
CORE i5 With 1GB Graphic Card ', '11000'),
(11, 'DELL', '5559 ', '2017', '4 hours battery', 'i3
6100/4gb/1tb/2gb/black ', '31000');
```

```
-- --------------------------------------------------------

--
-- Table structure for table `messages`
--

CREATE TABLE `messages` (
  `msg_id` int(100) NOT NULL,
  `sender_id` varchar(255) DEFAULT NULL,
  `receiver_id` varchar(255) DEFAULT NULL,
  `message` varchar(255) DEFAULT NULL,
  `msg_date` varchar(255) DEFAULT NULL,
  `msg_time` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `messages`
--

INSERT INTO `messages` (`msg_id`, `sender_id`, `receiver_id`,
`message`, `msg_date`, `msg_time`) VALUES
(1, 'kenil@gmail.com', 'praj12121998@gmail.com', 'This is
Kenil Shah. I would like to buy your iPhone 10.',
'2018-10-09', '03:14 AM'),
(2, 'kenil@gmail.com', 'praj12121998@gmail.com', 'But The
price is too much can you reduce it to 55000', '2018-10-09',
'03:15 AM'),
(3, 'praj12121998@gmail.com', 'kenil@gmail.com', 'Sorry I
can\'t agree for 55000 but I can agree for 57000 ',
'2018-10-09', '03:17 AM'),
(4, 'praj12121998@gmail.com', 'kenil@gmail.com', 'Please tell
me quickly otherwise it will be sold to another person ',
'2018-10-09', '03:19 AM'),
(5, 'praj12121998@gmail.com', 'kenil@gmail.com', 'Hi this is
mwee', '2018-10-09', '03:59 AM'),
(7, 'madhu@gmail.com', 'madhu@gmail.com', 'wedfr',
'2020-11-18', '12:22 PM'),
(8, 'kenil@gmail.com', 'madhu@gmail.com', 'testtest',
'2020-11-18', '12:36 PM'),
(9, 'madhu@gmail.com', 'surabh@gmail.com', 'test',
'2020-11-18', '03:15 PM'),
```

```sql
(10, 'madhu@gmail.com', 'madhu@gmail.com', 'll', '2020-11-18',
'03:21 PM'),
(11, 'madhu@gmail.com', 'kenil@gmail.com', 'shopify test',
'2020-11-19', '08:05 AM'),
(12, 'kenil@gmail.com', 'madhu@gmail.com', 'ewrgtrhgrbrb',
'2020-11-20', '03:08 PM');


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


--
-- Table structure for table `mobile`
--

CREATE TABLE `mobile` (
 `product_id` int(100) NOT NULL,
 `manufacturer` varchar(255) DEFAULT NULL,
 `model_name` varchar(255) DEFAULT NULL,
 `year_of_purchase` varchar(255) DEFAULT NULL,
 `ad_description` varchar(255) DEFAULT NULL,
 `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


--
-- Dumping data for table `mobile`
--

INSERT INTO `mobile` (`product_id`, `manufacturer`,
`model_name`, `year_of_purchase`, `ad_description`,
`expected_price`) VALUES
(4, 'Apple', 'IP9248', '2018 (recently)', 'Brand New ',
'59999'),
(5, 'Samsung', 'SJ7070', '2018 (recently)', 'bill box
accessories available', '7900'),
(6, 'MI', 'MIR3872', '2017', 'Good Condition 3gb ram, 32gb
internal memory 12mp rear camera 5mp front camera 4000mAh
Battery', '7000');



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


--
-- Table structure for table `speakers`
--
```

```sql
CREATE TABLE `speakers` (
  `product_id` int(100) NOT NULL,
  `manufacturer` varchar(255) DEFAULT NULL,
  `year_of_purchase` varchar(255) DEFAULT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `speakers`
--

INSERT INTO `speakers` (`product_id`, `manufacturer`,
`year_of_purchase`, `ad_description`, `expected_price`) VALUES
(47, 'JBL', '2000', 'Good quality speakers', '6120'),
(52, 'nids', '2004', 'Great zooming effect ,price is
negotiable', '5230');




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


--
-- Table structure for table `television`
--

CREATE TABLE `television` (
  `product_id` int(200) NOT NULL,
  `manufacturer` varchar(255) DEFAULT NULL,
  `model_name` varchar(255) DEFAULT NULL,
  `year_of_purchase` varchar(255) DEFAULT NULL,
  `inches` mediumint(200) NOT NULL,
  `ad_description` varchar(255) DEFAULT NULL,
  `expected_price` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
-- Dumping data for table `television`
--

INSERT INTO `television` (`product_id`, `manufacturer`,
`model_name`, `year_of_purchase`, `inches`, `ad_description`,
`expected_price`) VALUES
```

```sql
(39, 'samsung', 'wes', '2002', 785, 'qweds', '29848474');


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

--
-- Table structure for table `users`
--

CREATE TABLE `users` (
  `Nitc_email_id` varchar(255) NOT NULL,
  `User_name` varchar(255) DEFAULT NULL,
  `Mobile_no` varchar(255) DEFAULT NULL,
  `User_type` varchar(255) DEFAULT NULL,
  `User_password` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `users`
--

INSERT INTO `users` (`Nitc_email_id`, `User_name`,
`Mobile_no`, `User_type`, `User_password`) VALUES
('kenil@gmail.com', 'kenil', '24466366', 'Faculty', '1234'),
('madhu@gmail.com', 'Madhumitha', '9786131242', 'Student',
'1234'),
('praj12121998@gmail.com', 'Prajwal', '9757318791', 'Student',
'1234'),
('razeen@gmail.com', 'Razeen', '9786131245', 'Student',
'1234'),
('surabh@gmail.com', 'Saurabh Marpallikar', '8403361093',
'Student', '1234'),
('vinod@gmail.com', 'vinod', '434356446', 'Student', '1234');
```

UPDATE COMMANDS TO ENABLE PRIMARY KEY AND FOREIGN KEY CONSTRAINTS

```sql
--
-- Indexes for table `advertisement`
--
ALTER TABLE `advertisement`
 ADD PRIMARY KEY (`advt_id`),
 ADD KEY `owner_id` (`owner_id`),
 ADD KEY `buyer_id` (`buyer_id`);


--
-- Indexes for table `author`
--
ALTER TABLE `author`
 ADD PRIMARY KEY (`product_id`,`author_name`);


--
-- Indexes for table `bikes`
--
ALTER TABLE `bikes`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `book`
--
ALTER TABLE `book`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `camera`
--
ALTER TABLE `camera`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `car`
--
ALTER TABLE `car`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `laptop`
--
ALTER TABLE `laptop`
 ADD PRIMARY KEY (`product_id`);
```

```sql
--
-- Indexes for table `messages`
--
ALTER TABLE `messages`
 ADD PRIMARY KEY (`msg_id`),
 ADD KEY `sender_id` (`sender_id`),
 ADD KEY `receiver_id` (`receiver_id`);


--
-- Indexes for table `mobile`
--
ALTER TABLE `mobile`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `speakers`
--
ALTER TABLE `speakers`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `television`
--
ALTER TABLE `television`
 ADD PRIMARY KEY (`product_id`);


--
-- Indexes for table `users`
--
ALTER TABLE `users`
 ADD PRIMARY KEY (`Nitc_email_id`);


--
-- AUTO_INCREMENT for dumped tables
--


--
-- AUTO_INCREMENT for table `advertisement`
--
ALTER TABLE `advertisement`
 MODIFY `advt_id` int(100) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=58;


--
```

```sql
-- AUTO_INCREMENT for table `messages`
--
ALTER TABLE `messages`
 MODIFY `msg_id` int(100) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=13;


--
-- Constraints for dumped tables
--


--
-- Constraints for table `advertisement`
--
ALTER TABLE `advertisement`
 ADD CONSTRAINT `Advertisement_ibfk_1` FOREIGN KEY
(`owner_id`) REFERENCES `users` (`Nitc_email_id`) ON DELETE
CASCADE,
 ADD CONSTRAINT `Advertisement_ibfk_2` FOREIGN KEY
(`buyer_id`) REFERENCES `users` (`Nitc_email_id`) ON DELETE
CASCADE;


--
-- Constraints for table `bikes`
--
ALTER TABLE `bikes`
 ADD CONSTRAINT `fkb` FOREIGN KEY (`product_id`) REFERENCES
`advertisement` (`advt_id`);


--
-- Constraints for table `book`
--
ALTER TABLE `book`
 ADD CONSTRAINT `Book_ibfk_1` FOREIGN KEY (`product_id`)
REFERENCES `advertisement` (`advt_id`);


--
-- Constraints for table `camera`
--
ALTER TABLE `camera`
 ADD CONSTRAINT `fkc` FOREIGN KEY (`product_id`) REFERENCES
`advertisement` (`advt_id`);


--
-- Constraints for table `car`
```

```sql
--
ALTER TABLE `car`
 ADD CONSTRAINT `fkcar` FOREIGN KEY (`product_id`) REFERENCES
`advertisement` (`advt_id`);


--
-- Constraints for table `laptop`
--
ALTER TABLE `laptop`
 ADD CONSTRAINT `Laptop_ibfk_1` FOREIGN KEY (`product_id`)
REFERENCES `advertisement` (`advt_id`);


--
-- Constraints for table `messages`
--
ALTER TABLE `messages`
 ADD CONSTRAINT `Messages_ibfk_1` FOREIGN KEY (`sender_id`)
REFERENCES `users` (`Nitc_email_id`),
 ADD CONSTRAINT `Messages_ibfk_2` FOREIGN KEY (`receiver_id`)
REFERENCES `users` (`Nitc_email_id`);


--
-- Constraints for table `mobile`
--
ALTER TABLE `mobile`
 ADD CONSTRAINT `Mobile_ibfk_1` FOREIGN KEY (`product_id`)
REFERENCES `advertisement` (`advt_id`);


--
-- Constraints for table `speakers`
--
ALTER TABLE `speakers`
 ADD CONSTRAINT `fks` FOREIGN KEY (`product_id`) REFERENCES
`advertisement` (`advt_id`);


--
-- Constraints for table `television`
--
ALTER TABLE `television`
 ADD CONSTRAINT `fkt` FOREIGN KEY (`product_id`) REFERENCES
`advertisement` (`advt_id`);
```

SELECT COMMAND USED IN PACKAGES TO DISPLAY NEEDED DATA ACCORDINGLY

Following commands are used to insert data into tables using php variables and displaying them in required format using frontend code for viewers to view details and purchase
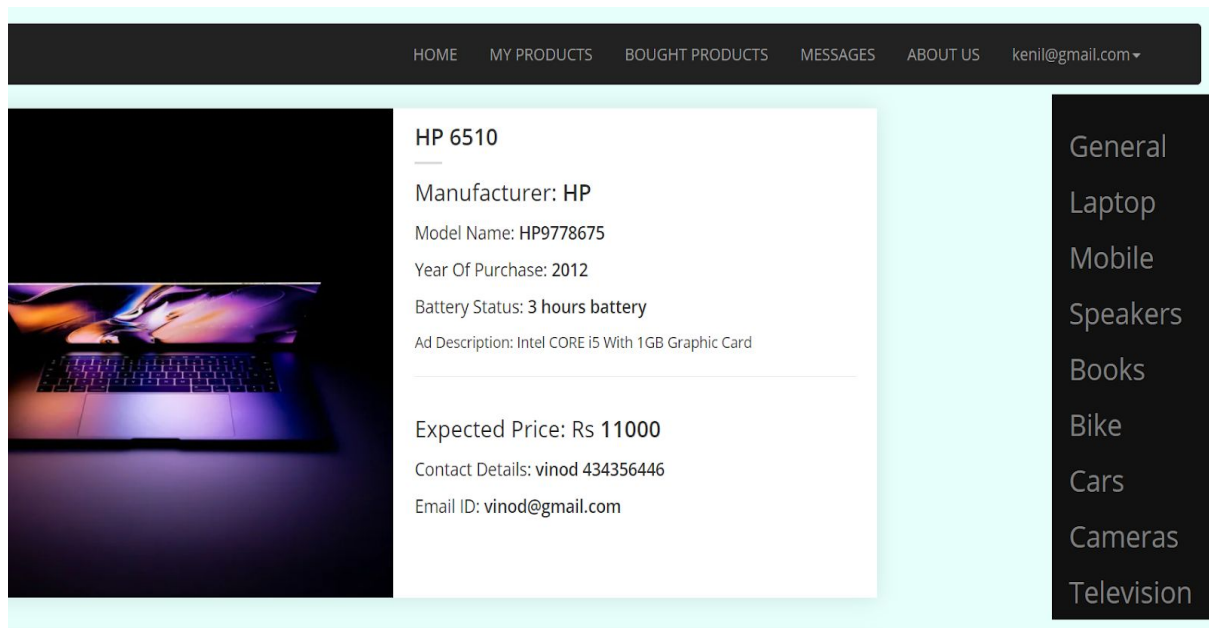
audio.php

```
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$speaker','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';

INSERT INTO speakers
(product_id,manufacturer,year_of_purchase,ad_description,expec
ted_price)
```

```
VALUES
('$temp','$manufacturer','$yearOfPurchase','$description',
'$expectedPrice');
```


bike.php

```
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$bike','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';

INSERT INTO bikes
(product_id,manufacturer,model_name,year_of_purchase,kilometer
s_driven,ad_description,expected_price)
VALUES
('$temp','$manufacturer','$productName','$yearOfPurchase','$kd
rive',
'$description','$expectedPrice');
```
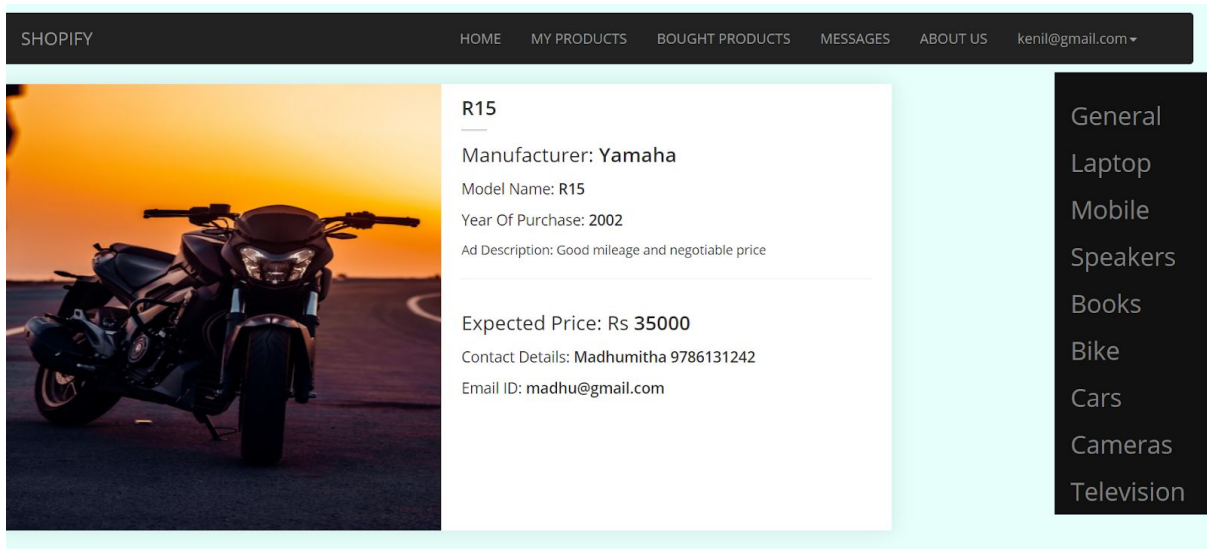
books.php

```
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$nameOfBook','$book','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$nameOfBook' and owner_id = '$owner_email';

INSERT INTO Book
(product_id,name_of_book,condition_book,ad_description,expecte
d_price)
VALUES
('$temp','$nameOfBook','$condition','$description','$expectedP
rice');

INSERT INTO Author (product_id,author_name) VALUES
('$temp','$author1');
INSERT INTO Author (product_id,author_name) VALUES
('$temp','$author2');
INSERT INTO Author (product_id,author_name) VALUES
('$temp','$author3');
```
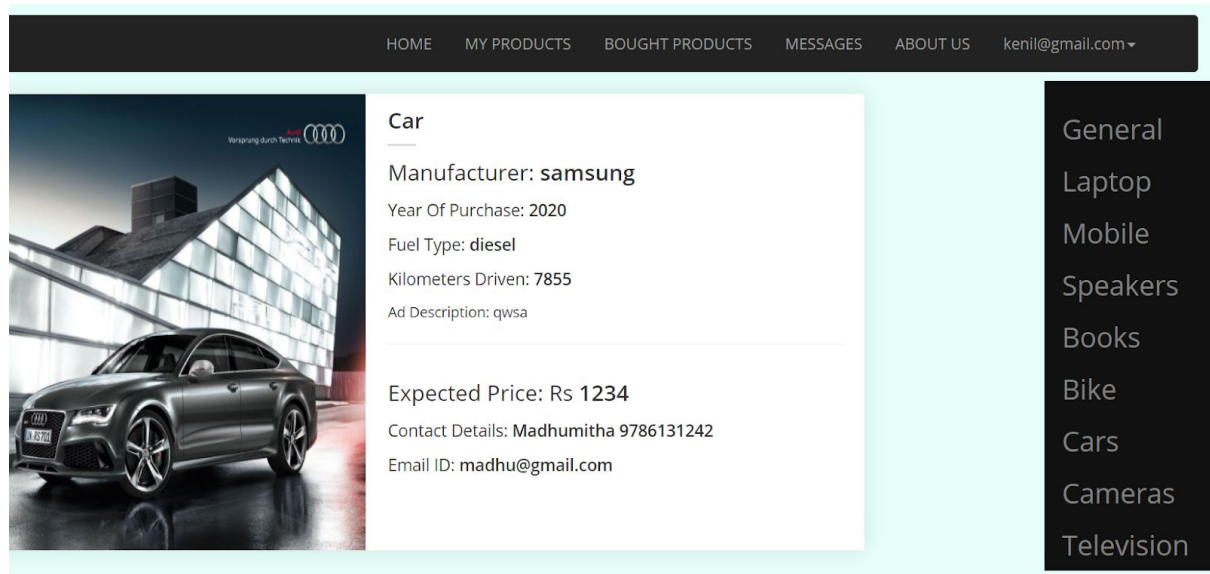
camera.php

```sql
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$camera','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';

INSERT INTO camera
(product_id,manufacturer,model_name,year_of_purchase,battery_s
tatus,ad_description,expected_price)
VALUES
('$temp','$manufacturer','$modelName','$yearOfPurchase','$batt
eryStatus','$description','$expectedPrice');
```
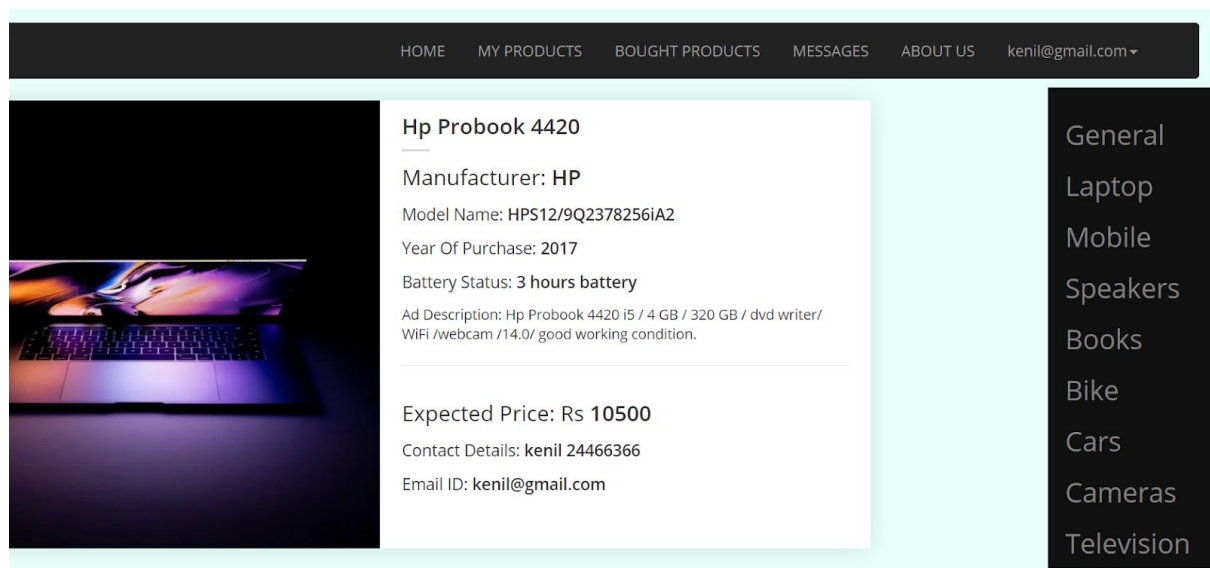
car.php

```
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$car','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';

INSERT INTO car
(product_id,model_name,manufacturer,year_of_purchase,fueltype,
kilometers_driven,ad_description,expected_price)
VALUES
('$temp','$productName','$manufacturer','$yearOfPurchase','$fu
el','$kdrive','$description','$expectedPrice');
```


laptop.php

```
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$laptop','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';
```

```sql
INSERT INTO Laptop
(product_id,manufacturer,model_name,year_of_purchase,battery_s
tatus,ad_description,expected_price)
VALUES
('$temp','$manufacturer','$modelName','$yearOfPurchase','$batt
eryStatus','$description',$expectedPrice);
```


mobile.php

```sql
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$mobile','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';

INSERT INTO Mobile
(product_id,manufacturer,model_name,year_of_purchase,ad_descri
ption,expected_price)
VALUES
('$temp','$manufacturer','$modelName','$yearOfPurchase','$desc
ription','$expectedPrice');
```

television.php

```sql
INSERT INTO Advertisement
(item_name,item_type,date_of_init,date_of_exp,owner_id)
VALUES
('$productName','$tele','$today','$expiry','$owner_email');

SELECT advt_id FROM Advertisement where item_name =
'$productName' and owner_id = '$owner_email';
INSERT INTO television
(product_id,manufacturer,model_name,year_of_purchase,inches,ad
_description,expected_price)
VALUES
('$temp','$manufacturer','$modelName','$yearOfPurchase','$inch
','$description',$expectedPrice);
```