Amusement Park DB

**LIST OF TABLES:**

**VISITORS** (Visitor Id, Name, Age, Gender, Address, Contact\_no, Email, Entry\_time, Exit\_time, Date\_of\_visit, Mode\_of\_Transport)

**EVENTS** (Event\_ID, Event\_Name, Capacity, Timings, Category)

**EMPLOYEE** (Emp\_ID, Emp\_Name, Address, Contact\_No, Gender, Department, Shift, Salary, DOB, Join\_Date, Event\_Id)

***Foreign key: Event\_Id***

**MAINTENANCE\_PROBLEMS**(Complaint\_Id,Complaint\_Name, Date\_of\_complaint, Status, Date\_of\_completion, Employee\_Id, Event\_Id)

*Foreign key: Employee\_Id, Event\_Id*

**BOOKINGS**(Ticket\_No,Payment\_Mode, Card\_type, Price\_Before\_discount, Price\_After\_Discount, No\_of\_visitors, Visitor\_Id, Event\_Id)

Foreign key: Visitor\_Id, Event\_Id

Give the name of the visitors whose mode of transport to amusement park is car?

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| --- | --- |
| *What is to be found? [columns]* | Name of the visitors |
| *Where to search? [tables]* | Visitors |
| *What are search conditions?* | Transport must be a car . |

SQL: **select Name from Visitors where Mode\_of\_Transport =”Car”;**

RA: **Π NAME (σ MODE\_OF\_TRANSPORT = ’CAR’ (VISITORS))**

Give the name and address of the visitors who visited the amusement park on 2-10-2018?

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| --- | --- |
| *What is to be found? [columns]* | Name and Address of visitors |
| *Where to search? [tables]* | Visitors |
| *What are search conditions?* | Visited on 2-10-2018 |

SQL: **select Name, address from Visitors where Entry\_time =”2-10-2018”;**

RA: **Π NAME, ADDRESS(σ DATE\_OF\_VISIT = ‘02-OCT-2018’ (VISITORS))**

Give the Name of the events which has the accommodation for more than 200 visitors?

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| --- | --- |
| *What is to be found? [columns]* | Event Name |
| *Where to search? [tables]* | Event |
| *What are search conditions?* | Capacity > 20 |

SQL: **SELECT Event\_name From Events WHERE Capacity > 200;**

RA: **Π EVENT\_NAME( σ CAPACITY > 200 (EVENTS))**

What is the time of event E150?

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| --- | --- |
| *What is to be found? [columns]* | Time of the event E150 |
| *Where to search? [tables]* | Events |
| *What are search conditions?* | Time of the event |

SQL: **select Timings from Events where Event\_id = “E150”;**

RA: **Π TIMINGS( σ EVENT\_ID = 150 (EVENTS))**

List the details of male employees who work during night shift?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | All columns |
| *Where to search? [tables]* | Employees |
| *What are search conditions?* | Gender male and shift Night |

SQL: **SELECT \* FROM Employee WHERE Gender = ‘Male’ AND Shift = ‘night’;**

RA: **(σ GENDER = ’MALE’ ^ SHIFT = ’NIGHT’ (EMPLOYEE))**

Give the contact number of the employees whose salary is more than 30000 and less than 45000?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | Contact No |
| *Where to search? [tables]* | Employee |
| *What are search conditions?* | Salary > 30000 and salary <45000 |

SQL: **SELECT Contact\_no FROM Employee WHERE Salary > 30000 AND salary < 45000;**

RA: **Π CONTACT\_NO (σ SALARY > 30000 ^ SALARY < 45000 (EMPLOYEE))**  
List down the details of complaints filed on 2-10-2018?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | All columns |
| *Where to search? [tables]* | Maintenance Problems |
| *What are search conditions?* | Date\_of\_complaint = “2-10-2018” |

SQL: SELECT \* FROM Maintanence\_Problems WHERE Date\_of\_Complaint = ‘02-OCT-2018’;

RA: **(σ DATE\_OF\_COMPLAINT = ‘02-0CT-2018’ (MAINTANENCE\_PROBLEMS))**

Give the complaint ids of the complaints that are completed on ’02-10-2018’ and ’03-10-2018’?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | Complaint ID |
| *Where to search? [tables]* | Maintenance Problems |
| *What are search conditions?* | **(**Date\_of\_Complaint = ‘02-OCT-2018’ OR Date\_of\_Complaint = ‘03-OCT-2018’) AND status = ‘Completed’ |

SQL:SELECT complaint\_id FROM Maintanence\_Problems WHERE Date\_of\_Complaint = ‘02-OCT-2018’ OR Date\_of\_Complaint = ‘03-OCT-2018’ AND status = ‘Completed’;

RA: **(σ DATE\_OF\_COMPLAINT = ‘02-0CT-2018’ V DATE\_OF\_COMPLAINT = ‘02-0CT-2018’ ^ STATUS = ’Completed’ (MAINTANENCE\_PROBLEMS))**

Give the Ticket Nos and the number of visitors for each ticket whose payment mode is net-banking?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | Ticket No, Num of Visitors |
| *Where to search? [tables]* | Bookings |
| *What are search conditions?* | Payment mode is banking |

SQL: SELECT Ticket\_No, No\_of\_visitors FROM Bookings WHERE Payment\_Mode = ’Net Banking’;

RA: **Π TICKET\_NO, NO\_OF\_VISITORS (σ PAYMENT MODE=’NET BANKING’ (BOOKINGS))**

Find the price after discount for all tickets for which the number of visitors are more than 5 and the card types are ‘VISA’ and ‘MasterCard’?

|  |  |
| --- | --- |
| *What is to be found? [columns]* | Price after discount |
| *Where to search? [tables]* | Bookings |
| *What are search conditions?* | No of visitors>5 and card type =”Visa” or card type = “Mastercard” |

SQL: SELECT Price\_After\_Discount FROM Bookings WHERE No\_of\_visitors > 5 AND Card\_type = ‘VISA’ OR Card\_type = ‘Mastercard’;

RA: **Π PRICE\_AFTER\_DISCOUNT (σ No\_of\_visitors > 5 ^ Card\_type = ‘VISA’ V Card\_type = ‘Mastercard’ (BOOKINGS))**